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A SERIES OF GEOGRAPHICAL READING BOOKS

EDITED BY  
LARKIN DUNTON, LL.D.  
Head Master of Boston Normal School

THE YOUNG  
FOLKS' LIBRARY  
VOLUME NO. 11.



BOOK VII

## VIEWs IN AFRICA

BY  
ANNA B. BADLAM  
PART TWO

SILVER BURDETT & CO. PUBLISHERS.  
NEW YORK BOSTON CHICAGO



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PART TWO.

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AUTHOR OF "STORIES OF CHILD LIFE."

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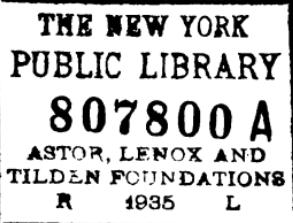


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1896

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PUBLISHERS' ANNOUNCEMENT.

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IT is now conceded by all educators that school instruction should be supplemented by reading matter suitable for use by the pupil both in the school and in the home. Whoever looks for such reading, however, must be struck at first with the abundance of what is offered to schools and parents, and then with its lack of systematic arrangement, and its consequent ill adaptation to the needs of young people.

It is for the purpose of supplying this defect, that the publishers have decided to issue a series of volumes, under the general title of the **YOUNG FOLKS' LIBRARY FOR SCHOOL AND HOME.**

These books are intended to meet the needs of all children and youth of school age; from those who have just mastered their first primer, to those who are about to finish the high school course. Some of the volumes will supplement the ordinary school readers, as a means of teaching reading; some will reënforce the instruction in geography, history, biography, and natural science;

while others will be specially designed to cultivate a taste for good literature. All will serve to develop power in the use of the mother tongue.

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## PREFACE.

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AFRICA is a vast continent inhabited, for the most part, by people who have not felt the influence of Christianity and modern civilization, and who, consequently, differ from us in character and habits of life.

To become intelligent in regard to the continent, so as to know it, with its rich flora and strange fauna, as a part of the world in which we live, is an important part of a child's education. But a close acquaintance with the people who inhabit it, and with their occupations, interests, homes, and modes of thought and feeling, is an essential condition of that broad sympathy with humanity and that strong unselfish patriotism which should be characteristic of every true American citizen; for we know our blessings only by contrast.

The elevating influence of civilization, both old and new, is made still more apparent by studying its manifestations in the northern and southern sections of the continent, where its power is set off in contrast with the uncivilized interior. This is especially true of the study of ancient and modern Egypt.

It is the purpose of the present volume to furnish the young people of this country an opportunity for such study and knowledge. Many books have been written

about Africa for older folks ; but this is an attempt to unlock the treasures of this hitherto inaccessible field for the special benefit of the young, and thus to contribute something towards enlightening their heads and warming their hearts.

The book should be read with a good map of Africa, and, so far as possible, with maps of the various sections of the country, constantly open before the reader.

Acknowledgment is here made of indebtedness to the following excellent works, which are cordially recommended to the readers of this book : "The Countries of the World," Vol. VI; "The Story of Nations," Vol. II; "Africa Illustrated"; "Famous African Explorers," Vols. I and II; "A Journey to Ashango-Land"; "Livingstone's Researches in South Africa"; "Travellers in Africa"; "Home Life on an Ostrich Farm"; "Geography, Physical, Historical, and Descriptive"; and "Polar and Tropical World."

THE EDITOR.

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ENCAMPMENT OF BEDOUIN ARABS.

Frontispiece.

## PART TWO.

### *BROADER VIEWS OF THE CONTINENT.*



### CHAPTER XLVII.

#### *VIEWS OF WESTERN AFRICA.*

Western Africa comprises the west coast of the continent from the borders of the Great Desert to the Nourse River, together with a considerable amount of inland territory.

This inland territory varies considerably in its extent from the shores; and, in fact, is quite undefined as to its limits within the interior of the continent.

Senegambia is the country drained, you will remember, by the Senegal and Gambia, hence its name. It is generally understood to include the tract of country from the Senegal southward to the promontory of Sierra Leone.

The French, Portuguese, and British have settlements. France has the largest possessions. They extend all along the left bank of the lower Senegal River, and along the coast past Cape Verd to near the Gambia.

The seat of government of the French is St. Louis. It is situated at the mouth of the Senegal. The chief commercial town is Dâkir. It is situated on the penin-

sula of Cape Verd. The islet fortress of Goric stands guard over it.

Farther to the south there are a number of smaller, isolated possessions. These, too, belong to the French. There are also several stations on the banks of the various smaller rivers.

Since 1880 these scattered possessions of the French have become consolidated. Several native states have placed themselves under a French protectorate. Thus no little progress has been made in consolidating the French possessions in Senegambia with those on the coast of Guinea.

Quite a large extent of seacoast is nominally claimed by the Portuguese; but their actual possessions are exceedingly small.

The Gambia River is navigable for three hundred miles up from the sea. The greater part of the river is held by the British. They have an important little colony at the mouth of the river, and several smaller stations higher up the stream.

Sherboro Island lies fifty miles south of the British colony, Sierra Leone. This island and the coast line as far as Liberia form a part of the British possessions.

The inhabitants of Senegambia, if we except the Europeans and the traders living in the towns and trading stations, are mainly native negroes. All are black in color and have good figures.

We find here, too, representatives of a remarkable people, called the Fellatah. They belong to a much more advanced family than the negro. They differ from the true negro type in their red-brown color, their finer

features, slim figures, and less woolly hair. These Fellatah are to be found, also, considerably farther inland. In the Soudan they are very zealous advocates of the Mohammedan faith.

The western portion of Senegambia is very flat. The Great Desert, its near neighbor, affects it by the dry,



NATIVES OF SENEGAMBIA.

hot winds; hence the atmosphere is often loaded with fine sand, and dark with clouds of locusts.

The eastern portion of the country is diversified by hills and elevated land. There are a great many rivers, the Senegal, Gambia, and Rio Grande being the most important.

In the heat of its climate Senegambia ranks with Egypt and Nubia. During the rainy season the heat is most oppressive. Then, from June to November, the country is completely drenched by the enormous fall of rain. During this season the prevailing wind is from the southwest; during the dry season it blows from the east.

The vegetation of Senegambia is very luxuriant and vigorous. The baobab, or monkey-bread tree, is found here. The cottonwood trees, a species of poplar, are very numerous. They rank among the loftiest trees in the world.

The chief trade of Senegambia is in the gums which the acacia forests yield. These forests cover the entire country north of the Senegal.

Farther south we find the factories for the manufacture of palm oil. These are all conducted by Europeans. The palm oil is exported to English ports and is used largely in the manufacture of a superior toilet soap.

The interior sections yield abundant quantities of groundnuts, hides, and wax. These are sent down the rivers and shipped from the coast. Many valuable products, as ginger, pepper, arrowroot, coffee, and rice, are capable of cultivation.

So great is the production of cotton that great quantities can be shipped to England at any time when the supply from other countries is so small as to raise the market price. No matter how extortionate the price may have been before the arrival of the Senegambia supply, it must soon become reasonable when the African cargo reaches English ports.

The west coast of Africa, from Senegambia to the Nourse River, is called the Guinea Coast. This name was derived from the Portuguese language.

The coast line is, generally speaking, very low. Navigators approaching it are obliged to make the tree tops along the shore their sailing guides until quite close to land; for only then is the outline of the coast visible.

Just north of the equator, in the Bight of Benin, the coast loses this marked characteristic and becomes high and bold, with the Cameroon Mountains for a background. Again, near Sierra Leone it presents a bold front to the sea.

These rugged features in the coast line are, however, noticeable exceptions to its general character. Frequently it presents a dead level, which extends from thirty to fifty miles inland.

“The heights which skirt the northern coast line of the Gulf of Guinea, and which stretch as far as the head waters of the Senegal and Gambia, and in the inner slopes of which the Niger also has its sources, may be considered as an extension of the Great South African Plateau. But they are of less general elevation; and that best known part of the ridge, which has the name



GUINEA COAST NATIVE.

of the Kong Mountains, is, apparently, not higher than from two thousand to three thousand feet."

This, perhaps, will help us to understand more clearly why one authentic author has stated that "the supposed Kong Mountains do not exist." Doubtless, he does not consider the ridge of a lofty enough elevation to be designated as a mountain range.

There are numerous rivers. Some of these extend far back into the deepest recesses of Central Africa.

The climate of the Guinea Coast is very fatal to Europeans; for the muddy creeks and inlets, the putrid swamps, and the mangrove jungles that line the banks of the rivers are all productive of pestilence and malaria.

There are two seasons, the wet and the dry. In the more southern portions the rainy season begins in March, but at Sierra Leone and farther north it begins a month later.

The vegetation is not only very luxuriant but varied. One of the most important trees is a species of palm. The covering of the seed, or nut, of this tree is used for the extraction of the palm oil of commerce.

A bunch of red and yellow fruit will often have a thousand oil-yielding plums, and weigh in some cases half a hundredweight.

It is no uncommon thing for several thousand tons to be exported in a year to English ports, as Liverpool, London, and Bristol.

The palm-oil tree is native to the country between the Gambia and the Congo, and is found in great abundance. The oil from the nuts, however, is manufactured chiefly in the country of the Gold and Slave coasts.

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Nearly all the remarkable animals of Africa are found in the country along the Gold Coast. The domestic animals are mostly of an inferior order; but of the wild animals we find an abundance, as elephants, hippopotamuses, monkeys, lions, leopards, together with crocodiles, serpents, and parrots.

The principal minerals of the country are gold and iron. The chief exports are palm oil, ivory, gold, wax, and various kinds of timber, as well as spices, gums, and rice.

The population consists of a few European colonists and a variety of negro nations. These, though bearing a strong physical resemblance to one another, and holding many customs in common, differ widely in their dispositions and characters.

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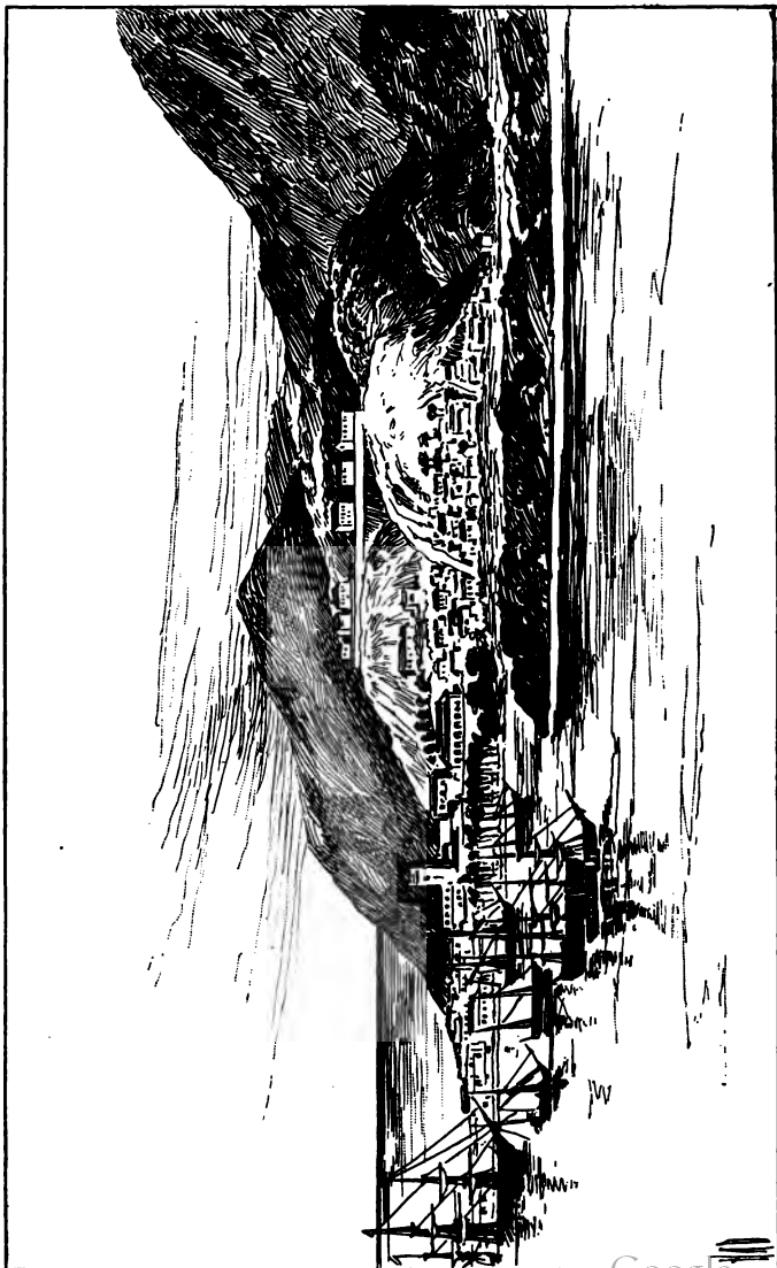
## CHAPTER XLVIII.

### UPPER GUINEA.

Guinea is usually divided into Northern, or Upper Guinea, and Lower Guinea.

Upper Guinea has several divisions, which still retain the characteristic names first given to them. These names were founded mostly on the productions of different sections, and becoming popular were retained.

Sierra Leone, named from its bold front "Lion Mountain," stretches from Rokelle River in the north to Kater River in the south, and for about twenty miles inland. It is a British colony, founded in 1787 for the



SIERRA LEONE.



suppression of the slave trade in West Africa, and has been maintained for that purpose.

The larger portion of the colony is a rugged peninsula of mountains. This has a sterile soil, but it is surrounded by a belt of fertile coast land with a humid and pestilential climate.

The population consists mostly of those who were once slaves, but who have been liberated. In 1869 the population numbered over fifty-five thousand; of these only one hundred and twenty-nine were white men. Freetown is the capital. Next to St. Louis it is the largest European town on the western coast of the continent.

The Grain Coast is named from the grains of the Malaghetta pepper plant. This plant is a species of parasite, and yields very abundantly.

The Malaghetta, or Grain Coast, is often called the Windy, or Windward Coast, on account of the many brief but furious tornadoes which it experiences throughout the year.

The negro republic of Liberia occupies nearly four hundred miles of this coast. It was founded by the American Colonization Society in 1822, for the purpose of establishing a settlement for the freedmen of the United States. Its capital is Monrovia, named after Mr. Monroe, the president of the Colonization Society. It is situated on the rising ground of the coast, within the shelter of Cape Mesurado, which forms a breakwater against the impetuous roll of the high surf from the Atlantic. It carries on quite a commerce with England, Holland, Germany, and the United States.

The Ivory Coast extends from Cape Palmas through three degrees of west longitude. It derived its name from the great quantities of ivory it afforded at one time. Now that the elephant is becoming extinct, the supply must, of course, cease.

Numerous French forts and settlements along this coast have, since 1871, been abandoned.

The Gold Coast is controlled entirely by the British government, and is, in fact, a Crown colony. It reaches from west of Cape Three Points to the river Volta.

The Gold Coast has long been visited for gold dust and other products. It has been described as an outer margin of plain, on the coast of which a roaring surf continually breaks. It extends east and west for about three hundred miles, and is bounded inland by hills covered with primeval forests. It is rich in the oil palm and oil-bearing groundnut, but the climate is exceedingly dangerous to Europeans.

Attempts have been made to introduce cattle and horses. These have all been unsuccessful, owing to that African scourge, the poisonous tsetse fly.

As far back as 1849 all the Dutch possessions along this coast were ceded to England, and by a treaty of 1871 all the Dutch possessions became British property.

The principal British station is Cape Coast Castle. It is named from its great church-like fort on the water's edge beside the filthy native town, above which the European residences peep out from among the woods. Elmina, "the mine," is situated about midway along the coast.

It was, doubtless, the earliest European settlement,

and is to-day one of the largest towns. It has a population of about ten thousand.

Just behind the Gold Coast lies the country of the Ashantees, a warlike negro people. The greater part of the country consists of forest and jungle.

The river Volta forms the western boundary of the Ashantee country. Next to the Niger it is the most important river of this portion of the coast line of Africa. Both of its banks, in the vicinity of the mouth, are included in the Gold Coast colony. The Volta seems to be navigable for about two hundred miles. No doubt, in the near future it will become an important highway of trade.

East of the Volta is a small German territory named Togo. Farther up we find Popo, a French settlement, and Whydah. The latter is the port of the negro kingdom of Dahomey. This kingdom is noted for its cruel rites and barbarous customs.

Farther on is the British town Lagos. This is the largest seaport of the Yoruba country and of all this portion of West Africa. It is in direct communication with Liverpool by steamers. These carry out cargoes of palm oil and cotton, in an unfailing supply, to England.

The kingdoms of Ashantee, Dahomey, Yoruba, and others, occupy the interior of the Guinea Coast country.

Ashantee is about two hundred and eighty miles long and about as many broad. Although a mountainous region, it has no abrupt or precipitous elevations. It is well watered, notwithstanding that it does not lie in any of the basins of the great African rivers. Along

the coast there are the mouths of several large streams, and the various affluents of these streams form a network over the country.

The Asinee River is a stream of some size. It is considered the boundary line between the Gold and the Ivory coasts. For a considerable distance from its mouth it forms the western boundary of Ashantee. The Volta, which is the largest river, is estimated to be four hundred miles in length. There are also several lakes in the country. These frequently overflow during the rainy season.

The heat and unhealthiness of the Guinea Coast are well known. This is partly due to the hot days succeeded by the chilly nights. The main cause, however, is the sulphurous mist which rises from the valleys and river sections in the mornings. This mist is particularly heavy during the rainy season. The kingdom of Ashantee has one dry season and two wet seasons.

The first rains occur near the end of May or the first of June. They are heralded by violent tornadoes. The rains are followed by fogs and haze. These are disagreeable enough at all times, but are particularly so in July and August. The second rains occur in October. These are followed by the hot, dry season, which lasts till April.

Elephants, rhinoceroses, giraffes, buffaloes, deer, antelopes, goats, apes, monkeys, and baboons are among the least harmful animals; but there are lions, tigers, leopards, jackals, wolves, and wild boars of the most ferocious nature. The rivers are found swarming with hippopotamuses and alligators, while serpents, scorpions, and lizards are found in great numbers.

The population of Ashantee proper has been estimated at one million. The whole empire, if we include the territories under the rule of the native king, is said to have a population of three millions.

The natives are well formed and in many respects do not show the peculiarities of form and feature found in the negro race. They are cleanly in their habits, and do not neglect their daily bath. After bathing they anoint themselves with the oil from the butter tree. This is a good cosmetic, and keeps the skin in fine condition in so hot and trying a climate.

Among the better class the clothing consists of an immense cloak. Sometimes it is made of the most costly silk. In time of warfare this dress is changed for a close vest covered with metal ornaments and scraps of Moorish writing. These are considered charms against danger. Loose cotton drawers, and large boots made of a dull red leather, complete the costume. The great chiefs wear gold breastplates; and as many of the natives as are able wear a profusion of gold ornaments.

The king of Ashantee has over three thousand women laborers, whom he has purchased from their parents for a small sum. During the working season these women are scattered over his numerous plantations. When they are at home, in the capital of the country, they live on two streets. Here they remain in seclusion, seeing only the king and his female relatives. So strict are the laws with regard to the seclusion of these women, who are practically slaves, that to look upon one, even by accident, is to be sentenced to death.

In every town well-stocked and well-regulated markets are held. These supply the natives with the necessities of life and with the various European manufactures that are in demand. The poorer classes subsist almost wholly upon fish. The common drink of the people is palm wine.

At all festivals and public meetings the most cruel acts and brutal customs prevail. Should a chief die, many lives must be sacrificed in his honor; and, on the death of the king, all his personal attendants and many others, male and female, numbering often several thousands, are sacrificed.

The chief employment of the Ashantee agriculturist is clearing the ground from the rank, luxuriant growth which covers it. This he does by means of fire. In this way he clears his ground and spreads it over with a layer of rich fertilizer.

The only agricultural implement is the hoe. This is of the crudest description; but it answers the purpose in a country whose productive soil is flooded twice each year, yielding two crops of most kinds of corn, and an abundance of yams and rice.

The natives lay out the plantations with a good deal of regularity. The cultivated grounds are extensive, though not equal to the wants of the people.

The Ashantees do not smelt ores like some of the African tribes, yet they have blacksmiths and goldsmiths much superior to what we might expect to find among them. There are also dyers, potters, tanners, and carpenters.

The fineness of texture and the variety and brilliancy

of coloring in the native cloths would do credit to an English or an American manufacturer. Several specimens of the handiwork of the Ashantees are to be found in the British Museum.

Various insurrections and frequent wars have occurred, in some of which the Ashantees have come into collision with the British nation. Finally, a few years ago, war was formally declared; for the Ashantees paid no regard to treaties formed with neighboring states under the protection of the British flag, and resented bitterly any interference on the part of Great Britain with the slave trade.

They not only insulted and robbed persons trading with the British settlements, but even killed them, in their bitter hatred. At last they took up arms against the British. A war followed, which terminated quite recently, and resulted in the defeat and disbandment of the Ashantees, and in the overthrow of the kingdom.

The capital, as well as the palace, was burned, and the king, in spite of his cunning and duplicity, was finally forced to sue for peace.

A treaty was formed, the conditions of which were most important; human sacrifices were to be abolished, the slave trade discontinued, and honorable commerce protected. Well will it be for Ashantee land if these conditions can be enforced; for the defeat of a native king in Africa means, usually, political chaos and ruin.

Even at the present time many of the Ashantees have thrown off their allegiance to the king; and the king-

dom will, no doubt, resolve itself into a number of petty chieftainships similar to those from which it was formed.

The kingdom of Dahomey is the most celebrated of all the West African countries.

The limits of the kingdom are somewhat uncertain; but the whole country over which the king of Dahomey originally ruled cannot have been less than four thousand square miles.

Formerly, the kingdom was engaged in the slave trade. Whydah, its seaward outlet, was one of the ports where the slavers were loaded with their human cargoes. Now it is an insignificant little town of ruined factories.

The kingdom, since the abolishment of the slave trade, furnishes little of value to commerce, with the exception of olive oil.

The people, and the king in particular, have long furnished the subjects of the most marvelous of stories. Travelers have brought back accounts of the curious serpent house at Whydah. Here are kept the sacred fetich serpents.

The edifice is merely a round structure, with a conical thatched roof. The hut, as we should call it, is from ten to twelve yards in diameter and seven or eight in height. The walls consist of dried earth, similar to those of the dwellings. Two openings, on opposite sides, furnish the doorways through which these serpent divinities trail their hideous forms, in their passage in and out the sacred temple.

Strings of cotton yarn hang from the roof. On the

floor, which, like the walls, is whitewashed, are several pots of water.

One traveler found as many as one hundred serpents within the sacred house. Another found but twenty-two on his visit. They were harmless, for their fangs had been removed.

The length of these reptiles varied from one to three meters. They had spindle-shaped bodies, which terminated gradually in a tail one-third the entire length of the body.

They had large heads, somewhat flattened and triangular, but shaped as if the corners had been rounded off. Their necks were somewhat thinner than their bodies.

Their color varied, ranging from a clear yellow to yellow green. Most of them were marked with two brown lines down the back; a few were irregularly spotted. Dr. Répin believed them to belong to the species of non-poisonous reptiles classified as pythons and adders.

As he watched them, some ascended and descended the tree trunks placed within the sacred house for them. Others suspended themselves by their tails, balanced themselves above his head, and peered down at him with their narrow eyes. Some were coiled up asleep under the rafters which supported the roof, after a feast from the last offerings of the faithful worshipers.

Strangely, weirdly fascinating as the sight was, and wholly devoid of danger, yet he could but give a sigh of satisfaction as he stepped into the open air.

Every one of these serpents is held sacred. If one of

them, astray from its home, is encountered by one of the superstitious negroes, it is approached in a most reverential manner, often on the knees, and then lifted carefully in the arms and carried back into the sacred house with the most humble apologies from the worshiping savage for the liberty he is taking in touching anything so sacred.

When, by accident, a European, unaware of its sacred character, has killed one of these serpents, it has been only with the greatest difficulty that his life has been saved from paying the forfeit for the sacrilegious act; so great has been the wrath of the priests and their fanatical people.

The serpent is thus reverenced because during a siege in war time it appeared to the army, and so inspired the soldiers with courage and ardor that a victory was won.

Abomey is the capital of Dahomey. It is situated seventy miles inland, and stands upon a level plateau. It is a walled city. The walls are of clay, and measure about eight miles in length. They are pierced by four gates, according to some writers; by six, according to others. Each has a double opening, one for the exclusive use of the king, the other for his subjects.

The walls of the town are twenty feet in height. A ditch from four to six feet deep is an added protection, in case an enemy should storm the walls. This ditch is crossed by means of light bridges of wood, which can easily be moved in case of danger.

The houses are widely separated, and in some instances are surrounded by small farms. The

streets are broad and tolerably clean, but by no means crowded; many of them are shaded by magnificent trees.

Near the center of the city is a small edifice, with a round roof sustained by a wooden colonnade. This is the building in which the human sacrifices formerly took place.

Near this is the palace of the king, consisting of a number of ordinary dwellings separated by courts and gardens, and serving as the lodgings of the king's female soldiers and his domestic slaves.

These dwellings are made of clay dried in the sun, and roofed with bamboos, which extend over the fronts and form verandas; only one of them has a doorway which opens on the principal street. This is the royal treasure house and is two stories high. Its walls are festooned with strings of cowries, hanging from the eaves to the ground, an ornamentation which is found nowhere else.

The king has no special apartment out of the many that comprise his palace, but chooses any, from time to time, which suits his fancy.

Surrounding all these dwellings is a wall of clay. This is from fifteen to twenty feet high, and pierced with several gates. Here and there at intervals iron hooks project, and from these are suspended the heads of decapitated subjects, some whitened and bleached by time, others ghastly tokens of recent sacrifices in pagan worship.

In front of the doorways of the dwellings, piles of elephant bones may be found heaped up. These are

probably trophies of the chase, and yet they seem to be held in superstitious fear by the natives.

The Dahomans are tall, well formed, and intelligent. For an African race they are wonderfully honest, and are well advanced in a knowledge of agriculture. They are almost all pagans, and practice the most heathenish rites. The king is an absolute despot, having complete control over the lives and the possessions of his people.

One of the cruel practices, formerly, was the tremendous sacrifice of human lives during any of the religious ceremonies. One king caused seven thousand followers to be killed at the death of his father.

A peculiar feature of the army was the corps of Amazons, or female soldiers. They have been described as more effective than their male comrades in time of war. The flower of the corps perished in a siege in 1867, and the soldiers were greatly reduced in numbers. The remaining force since then has been divided into three brigades, each of which has a distinguishing mode of dressing the hair.

Leaving the Dahomey kingdom, we reach the dead levels of the delta of the Niger, which has twenty-two main channels, separated by swamps of mangrove trees.

The navigation of the Niger is now carried on by a half dozen or more light steamers. These ascend the current from the Atlantic to the factories situated at the junction with the Binue, and even farther up both streams. These steamers carry on an exchange of European goods for ivory, palm oil, and butter from the olivelike seeds of the butter tree. All these steamers

need to be well armed, in case of an attack from hostile natives.

Abo, at the head of the delta, is in the very heart of the oil section. There are two or three important native towns farther up the river, and at the mouth of the Binue is an important mission station. This is under the management of a negro bishop. This mission station, Lukoja, is also a great depot and trading station of the British Niger Company, which has control over the government of the river.

Egga, a large Mohammedan town a day's journey by steamer above Lukoja, is at present the limit of the European trade on the Niger.

Beyond the delta of the Niger we find the estuaries of the Old Calabar and Cameroons rivers. These are famed as being the "oil rivers" of West Africa, owing to the great supply of oil which is brought down their currents from the interior.

At the coast all kinds of European goods are given in barter for the oil in a crude form. This crude oil is then melted and stored in sheds, ready for transportation.

The oil rivers, as far as Rio del Rey, are controlled by the British. The Cameroons coast has been ceded to Germany.

## CHAPTER XLIX.

## LOWER GUINEA.

Southern, or Lower Guinea, begins at the equator. It is generally understood to include the maritime coast line of West Africa. For about fifteen hundred miles it extends in a north and south direction from the head of the Bight of Biafra to Cape Frio.

On the northern part of the coast, out from the high peaks of the Cameroons, which stand on a peninsula of the mainland, are four volcanic islands in line.

The largest of these is Fernando Po, which belongs to Spain. Its perfectly conical summit, which rises to an elevation of over ten thousand feet, is wooded completely over. Its harbor of Clarence Cove is one of the most picturesque points in West Africa. At one time it was a place of banishment for political offenders from Spain.

Prince's Island, which has been compared to a volcanic garden, and St. Thomas, beyond it, whose lofty peak rises over seven thousand feet above the sea, belong to Portugal. The little rugged island of Annobon, which is the last of the chain, belongs to Spain.

The section around the Cameroon peaks has, within a short period, been occupied by the Germans. Near the equator, on the coast of Lower Guinea, the Spaniards have some small settlements in the beautiful Bay of Corisco, and on the promontory of San Juan, which adjoins it. The French, too, hold not only the inlet of

the Gaboon, but a large portion of the coast, together with an extensive inland section, which was ceded to them by the Berlin Conference, when the Congo State was established.

One of the chief negro tribes of West Africa, the Fans, occupy the coast line of Lower Guinea. They are a fine race, but are pronounced cannibals. Since they have come in contact with Europeans this revolting practice has been less prevalent.

The Fans have long been famed for their skill in forging weapons and making poisoned arrows. These occupations have declined since the advent of Europeans.

Du Chaillu, the explorer, relates his experience upon arriving at one of the Fan villages. So alarmed were the men, women, and children, that they fled in terror the moment they perceived the white "spirit," as they called him.

In his journal he writes: "If I was not frightened,



A NATIVE OF THE GABOON RIVER.

I was at least as much surprised by all I saw as the Fans could be. These fellows, who now for the first time saw a white man with straight hair, were to me an equal surprise, for they are real, unmistakable cannibals. And they were by long odds the most remarkable people I had thus far seen in Africa. They were much lighter in shade than any of the coast tribes, strong, tall, well made, and evidently active; and they seemed to me to have a more intelligent look than is usual to the African unacquainted with white men."

He describes these people as almost without clothing. Such as they had was made from the soft inside bark of a tree, while from the waist was suspended the skin of some wild animal. Their teeth were filed, which gave the face not only a ghastly but a ferocious appearance; and, in addition to filing, some had blackened the teeth.

The hair, or rather wool, was pulled out into long, stiff, thin plaits; and on the end of each, white beads or rings of copper or iron were strung.

Some of these natives wore caps made of feathers. Others wore long queues. These were made of their own wool, lengthened out by a kind of tow, which had been dyed black and mixed with it. This gave the wearers a very droll appearance.

Over the shoulders they wore suspended the huge, long knife of the country, and in their hands they bore spears and an immense shield made of elephant hide. About their necks they wore various charms and ornaments, which rattled constantly as they walked.

The shield the Fan carries is made of the hide of a

very aged elephant. Only the part which lies across the back of the animal is used. It is dried and smoked, and thus rendered as hard and impenetrable as iron. The shield when finished is about three feet long and two and a half feet wide.

The charms, or fetiches, which are worn suspended around the neck by the Fans, consist of the fingers and tails of monkeys; human hair, skin, teeth, and bones; clay, old nails, copper chains, shells; feathers, claws, and skulls of birds; pieces of iron, copper, or wood; seeds of plants; and ashes of various substances. This belief in charms indicated to Du Chaillu the highly superstitious nature of the people.

The women of the Fan tribe wear still less clothing than the men. They are small and hideously ugly. They wear their teeth filed like the men, and, in place of clothing, decorate their bodies with red dye.

The babies of this tribe were carried by the mothers in a sling, or rest, which was made of the bark of a tree and worn suspended from the neck.

Du Chaillu writes of these people that they crowded about him as soon as they became convinced that he meant them no harm, calling him "spirit," and examining every detail of his person and dress that he would permit them to touch. They seemed especially impressed by his hair and feet. They could not sufficiently admire the former. On his feet he wore boots, and, as his pantaloons hid the tops of these, they very naturally drew the conclusion that his boots were his feet, and expressed wonder that they should be of so different a color from his face.

Their color is dark brown, rather than black, and they tattoo themselves more than any of the other tribes north of the equator, though south of it there are tribes that pursue this practice to a much greater extent. The men do not disfigure themselves as much as the women, who take pride in the many blue lines and curves with which they cover their bodies. Their cheeks, too, they mark with various designs, and to add to their hideous appearance they wear in their ears huge copper and iron rings, which are so heavy as to weigh down the lobes to an ugly length.

The men of this tribe are very expert blacksmiths. The tools they make are rude, but they are far superior to those made by any other African tribe. Their weapons are very effective. Their battle-axe is a terrible instrument. One blow from it will split open a human skull. Another weapon is a singular pointed axe. This is thrown from a distance, very much as the American Indian used the tomahawk when on the war-path.

The war knife carried by this tribe is a cruel weapon when used in a hand-to-hand conflict. When not in use it is worn suspended from the side. Another deadly weapon is a huge knife, over a foot long and two-thirds of a foot wide. This is used to cut through the shoulders of an enemy.

The spears, which are fully seven feet long, are thrown with wonderful skill and accuracy to the distance of thirty yards. Crossbows are used in war and on hunting expeditions. Some of the larger arrows, which are used in the hunt, are about two feet in length, and are



tipped with an iron head resembling the sharp barbs of a harpoon.

Some of the axes and knives are decorated with a kind of scroll work. This is wrought in iron with graceful lines and curves, showing considerable artistic taste on the part of the native workmen.

The most deadly of all weapons used by the Fans is a small, insignificant-looking rod of bamboo. It is not more than a foot long, and is simply sharpened at one end. This is the famous poison arrow, a single pin's point prick of which means death. The poison for these arrows is obtained from the sap of a plant which grows in the forests. The point of each arrow is carefully dipped several times in the sap and allowed to dry, when it turns a red color.

These arrows are carried in a small bag made from the skin of some wild beast. They are much dreaded by the tribes at war with the Fans, for they can be thrown with great force at a distance of fifteen feet, and with such velocity that they cannot be evaded. There is no possible cure for a wound inflicted by one of these deadly yet harmless-looking missiles. Death soon follows in its wake.

In addition to skill in iron work, the Fans show considerable ingenuity in making vessels of clay. These they make surprisingly regular in shape, considering that they have no lathe, like ordinary potters.

Just beyond the low coasts above the delta of the Ogowé lies the hilly, thickly wooded shore of Loango. Here oil palms, gum trees, copper, ivory, coffee, cotton, and bananas are found in abundance.

The great river Congo, or Zaire, forms a line of division across West Africa; and the coast lands south of this line are very different from those which lie north of it.

In place of the lagoons and swamps, backed by evergreen forests, which lie north of the great river, level sandy bays appear along the shores farther south, and the forest vegetation is more distant from the coast; so that only long stretches of coarse grass, with here and there a tall tree, are seen from the ocean.

Behind the coast plain, however, the land rises in terraces, each of which is marked by a change of vegetation, from the first, with its larger shady trees and broad-leaved grasses, to the second, in which creeping plants abound, clasping the biggest trees with a mass of foliage and flowers, up to the third, where the plains are covered with gigantic grasses. Each of these changes of level corresponds to a change of climate, from the hot coast land up to the cool interior.

Here, in the Congo State, under the rule of the King of the Belgians, we find Banana Point, Boma, Vivi, names familiar to us in our reading of the Congo River district. Higher up the river, we find Leopoldville, on Stanley Pool, the principal station amongst the many that dot the river along this part of its course.

All the country for a great distance south of the river was once subject to the king of Congo, from whose dominion the river is named; his capital became the center from which the early Jesuit missionaries spread cultivation and industry far and wide.

Here they built the cathedral and monasteries of San



Salvador, the ruins of which still exist, and by their influence extended the territory of the king of Congo.

On their expulsion, however, the kingdom gradually diminished, till its territory now includes little more than the neighborhood of the capital; though its king still controls several of the chief trade routes to the interior.

Portuguese West Africa is generally called the Province of Angola. It is divided from north to south into five districts. Each district has its chief town corresponding to it in name.

In former times the slave trade was the main traffic of this coast. Since the cessation of that traffic the ivory trade has also declined. The groundnut is now largely cultivated for the oil it yields. Coffee grows wild, cotton is cultivated, and palm oil is brought down the Kuanza River in considerable quantity. Iron has long been smelted in the district of Cazengo, a little north of the Kuanza, and copper and gold appear in small quantity in many parts.

Most of the smaller kinds of game abound, but the elephant has disappeared from the mountain districts.

The capital of the colony is St. Paul de Loanda. It is mainly a European town, situated on a fine bay. It has large houses roofed over with tiles. The open verandas, so characteristic of these houses, give an artistic and beautiful finish to them, and are a source of pleasure and comfort to the owners, since they give free admission to the cool sea breezes.

Benguela, a large port on the coast, was formerly one of the great slave marts, from which thousands of

unfortunates were sent to Brazil and to the island of Cuba. Mossamedes lies farther south. It is a pretty town, built of stone houses and commanded by a fort. Ambriz is the northern port, but is sadly neglected, and presents a desolate picture of ruin and decay.

It is a matter of much interest to note the spread of Christianity in different sections of the dark continent, which, once shrouded in the gloom of superstition and barbarism, now receive the light of the Gospel. To quote from a daily paper:—

“Along the west coast of Africa there are now about two hundred and twenty-five churches, forty thousand converts, one hundred thousand adherents, three hundred schools, forty thousand pupils. Thirty-five languages or dialects have been mastered, and parts of the Bible and other books have been printed in these languages, while it is estimated that eight million of the natives have more or less knowledge of the gospel of Christ.”

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## CHAPTER L.

### THE CLIMATE OF AFRICA.

We have considered the climate of Africa but incidentally in connection with the sections which we have viewed. It will be of interest to note the changes in its character in connection with the form of the continent.

While Africa lies almost entirely within the torrid zone, and is therefore the hottest country known to us,

yet it presents three great varieties of climate. These correspond with its physical structure. Hence, we find the plateaus, the terraces which lead to them, and the coasts, showing great varieties of climate, though lying very nearly in the same latitude.

The highest temperature is to the north of the equator. In Nubia and in Upper Egypt the intense heat of the sun, acting upon the sands, renders it possible to roast eggs in them; while, along the shores of the Mediterranean the influence of the sea makes the climate much more temperate.

In the vast desert of Sahara, which has an area equal in extent to that of the Mediterranean Sea, and yet is almost destitute of water and well-nigh barren of vegetation, we find the climate showing a uniform yet striking contrast between the heat of the day and the coldness of the night. Towards the south of the Sahara the country is more elevated and consequently somewhat cooler. Some of the more elevated portions near the equator reach the altitude of perpetual snow.

There is no regular fall of snow even in the northern or southern portions of the continent. Radiation of the heat is very great in some parts of Africa, as in the northern sections. The soil of the Sahara, for instance, absorbs heat very rapidly during the day, but during the night it radiates the heat still more rapidly, thus making a great fall in temperature. So rapid is this radiation of heat that ice is said to be formed sometimes during the night when water is left exposed to the atmosphere.

In strong contrast to the hot days and cool nights of

the Sahara is the climate of the terraces of Limbu, situated behind the region of the Sierra Leone. Here we find the climate not only temperate but wholesome; while in the region behind the Slave Coast there are beautiful landscapes, abundant springs, new forms of vegetation to delight eye or palate, and an atmosphere as mild and balmy as that of sunny Italy.

In the regions of the Congo the natives call their terrace lands, which are under cultivation and thickly populated, "The Paradise of the World," suggestive of every detail of the beauty of the Garden of Eden, when Adam and Eve were permitted to dwell in it.

The flat coasts of Africa are often flooded over in the rainy season. This renders the climate very oppressive, owing to the humidity of the atmosphere. From the morasses found around the mouths of the rivers a malarious vapor arises, which is most destructive to health. Malarial fever, when it attacks Europeans, is much of the nature of a pestilence in its destruction of life.

This pestilential air along the coast region is supposed to be caused by the decaying vegetable matter brought down from the dense mangrove woods through which the rivers take their course in their journey to the sea.

As this decaying vegetable matter mingles with the salt water of the sea, it forms a poisonous gas, sulphurated hydrogen, most fatal to health. The air of these regions, freighted with this pestilential gas, often extends for one hundred miles inland.

Out at sea we find this gas poisoning the air for about forty miles from the coast, while it affects the

atmosphere for about four hundred feet above sea level. Hence, it would seem desirable to take up one's abode either in the interior of such regions, far out at sea, or even in a balloon, were it possible, rather than to breathe the pestilential atmosphere of these coast terraces.

The influence of the regular winds is felt very little in Africa, with the exception of what comes from the monsoons of the Indian Ocean. These extend over possibly a third of the eastern shores, but they affect to a considerable extent the whole of Africa. Hurricanes are sometimes felt in the southeastern extremity, but rarely in any other portion.

The northern part of Africa is exposed to the hot winds and the storms which sweep from the Sahara. These winds have a distinctive character and are noted for their extreme dryness and heat. They often prove to be most disagreeable and disastrous; for they not only lift the sand in great volumes and fill the air with dust, but they prove fatal to animal life and vegetation in any region over which they sweep.

The supply of rain in Africa is very scanty. As we have seen, the Sahara is almost rainless, as is also the Kalahari Desert.

The clearness of the atmosphere of Africa exceeds that of any other known parts of the globe. It has been a constant surprise and delight to European astronomers, when making their explorations. With wonder and amazement they have beheld the glory and the splendor of the African heavens. With awe and admiration they have gazed at the planets shining

with great brilliancy and often making well-defined shadows, such as we are accustomed to look for from our nearest neighbor, the moon, when it is most brilliant during the harvest months.

The amount of rain which falls in Africa varies not only in the different sections of the continent, as we have seen, but with the season of the year.

To the regions between the Kawara and the Senegal the southeast trade winds bring copious rains. It has been stated that at Sierra Leone as much as one hundred and thirteen inches of rain have been known to fall during the year. These summer monsoons, however, bring the largest supply of rain to Africa upon its eastern coast. They last from April till October, and bring rain to drench the extensive plains and elevated grounds of the great eastern extremity of Africa.

The force of these winds becomes somewhat broken, and their influence diminished, by the vast table-lands of Abyssinia. When the monsoon comes from the Asiatic continent no rain falls in these regions.

The southeast monsoon extends north as far as Lake Tchad and Kordofan, and even farther north. The influence of this monsoon is felt in May, though along the coast it is usually felt a month later in the season.

This fact, it is believed, disproves the old theory that Central Africa has a connected chain of high mountains. For, at the east, where lofty mountains do exist, these same rain-bearing winds become seriously interrupted and retarded. Hence, they do not reach the most northern portions of Abyssinia until fully a month later than they reach Lake Tchad.

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The upper basin of the Nile, not far from the coast, no doubt receives its supply of water with the beginning of the monsoon, and continues to rise till September.

The many extremes of climate necessarily affect the vegetation of Africa. In connection with such views of Africa as we have had, we have gained some little knowledge of the vegetation, but it will be interesting to gain a broader and more comprehensive knowledge in order to understand the great diversity of animal life to be found in Africa.

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## CHAPTER LI.

### THE VEGETATION OF AFRICA.

The vegetation of Africa presents less variety than that of Europe or Asia, yet it has many peculiarities.

Along the coast of the Mediterranean it bears a close resemblance to that of Southern Europe. A traveler starting from the south of Europe for Tangier would note little difference in the vegetation, and might suppose he was still in sunny Spain or France. Groves of orange and olive trees would greet him; wide plains covered with waving grain and barley, thick woods of evergreen and oak, would appear like familiar friends in nature. Even the cork trees and sea pines would not be unknown to him.

Intermixed with these he would find the cypress and the myrtle, the arbutus and the fragrant tree heath, pleasant reminders of home scenes; while plains cov-



ered with rock roses or with palmetto trees and the wild caper would all tend to remind him of his European home.

In the early part of the year the weather seems very much like late spring in New England. The meadows are grassy and bright with myriads of beautiful wild flowers, and the gardens blossom with fresh beauty. The almond, apricot, and peach trees are then in full bloom.

In the summer season a few flowers may still be found along the river banks, although the intense heat in most sections has burned and withered almost every form of vegetable life.

The tropical regions of Africa are not so rich in the variety of plants as those of South America, but they present several kinds peculiar to Africa alone.

As the traveler leaves the sultry coast regions and ascends to the higher portions of land in the interior, he perceives a change in the character of the productions; for they present all the gradual changes noticeable in passing from a torrid to a temperate zone.

The forests of Africa cannot be said to rival those of Brazil, but they are rich in valuable woods, particularly the harder species. Many of them furnish excellent timber, suitable for shipbuilding. In these tropical forests, ebony, certain kinds of rosewood, and the timber called African teak, are produced. The gigantic baobab is also peculiar to these sections of woodland. Livingstone mentions instances where the gigantic trunks of some of these trees had become hollow from old age and served as natural cisterns for rain water.

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The branches of the baobab make a canopy of a hemispherical form, often from one hundred to one hundred and fifty feet in diameter, the outermost branches drooping till they touch the ground. The leaves of this tree are five-fingered or seven-fingered. The flowers are white in color and extremely large, suspended on drooping stems often a yard in length.

The fruit, sometimes called monkey-bread, is about the size of a citron melon. Its pulp is slightly acid and agreeable to the taste, so that it may be eaten with or without sugar. The juice of the fruit, when mixed with sugar, makes a refreshing drink. It is not only effective in quenching thirst, but is used largely in the treatment of pestilential fevers caused by the malarial vapors arising from many sections of Africa.

The natives of tropical Africa mix the bruised leaves of the tree with their daily food. Travelers use them for fevers and other sicknesses. The bark, too, is used for medicinal purposes.

In the central portions of Africa a most remarkable tree, called the butter tree, is found. The fruit of this tree yields a species of oil, which has much the appearance of butter and serves the same purpose for food.

Some of the extensive level plains of Africa are covered with acacias. From the stalks of these trees the sap exudes in large drops, or beads, which, when hardened, form the gum arabic of commerce.

In different sections of Africa there are species of palm trees, characteristic of special localities. These are of the greatest value and importance to the natives.

In the north the date palm, in particular, is a never-

failing means of sustenance, and seems to be a special provision of Providence for the wants of man, flourishing in regions comparatively barren, and often surrounded by the hot, arid sands of the desert.

### THE ARAB TO THE PALM.

BAYARD TAYLOR.

If I were a king, O stately tree,  
A likeness, glorious as might be,  
In the court of my palace I'd build for thee!

With a shaft of silver, burnished bright,  
And leaves of beryl and malachite;  
With spikes of golden-bloom ablaze,  
And fruits of topaz and chrysoprase.

And there the poets in thy praise,  
Should night and morning frame new lays,—  
New measures sung to tunes divine;  
But none, O palm, should equal mine!

The doom palm is another species, and is remarkable for its many-forked stem. It is found in Upper Egypt and in Central Africa, and in some sections is very plentiful, forming forests; while in others it is found in isolated groups, growing in the very sands of the desert.

The leaves of this tree are shaped like a fan. From the fibres of its leafstalks ropes are sometimes made. The tree is, however, still more useful, for it bears a fruit about the size of an orange. In shape it is somewhat different, being larger and more irregular.

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The outer skin of the fruit is red. Upon peeling this off, a thick, spongy, dry substance is found, having rather an insipid sweet taste, and very much the appearance of gingerbread. For this reason the tree is sometimes called the "gingerbread tree."

The substance found within the fruit is used for food, and it is sometimes infused and used as a drink, which is very cooling and useful in fevers. The seeds, one of which is found in each fruit, are semi-transparent and very hard. Beads and other ornaments are made from them.

Amid the tropical growth of the west of Africa the oil palm flourishes. Its products furnish the incentive to an immense commerce, attracting European ships to coasts once given completely over to the slave trade.

Along the tropical coasts the cocoa palm grows, while along the Gambia River vast quantities of a species of plant called the groundnut are extensively cultivated. Nine million bushels of groundnuts have been exported during one year from the valley of the Gambia.

This plant has a peculiar habit of thrusting its pods into the ground for the nuts to ripen; hence the name groundnut. Vast quantities of oil, resembling olive oil and used for the same purposes, are obtained by crushing the nuts. A bushel of nuts will usually yield a gallon of oil.

The plant grows like a trailing vine, with small yellow flowers. After the flower falls, the stalk on which it grew grows longer, and, bending downward, the pod on the end forces its way into the ground to ripen.

The vines are dug up by means of a pronged fork or hoe. They are then spread out to dry, and finally stacked up to become thoroughly cured.

The pods are first picked by hand from the vines, and then cleaned in a fanning mill to clear them of dust and chaff. Sometimes they are bleached with sulphur before they are packed for market.

The groundnut forms one of the chief articles of food in some sections. It is sometimes eaten raw, but is usually roasted. Recently an interesting account of the process of making a meal from groundnuts appeared in one of the daily journals. The experiment had been tried, in the German armies, of using this meal in place of others obtained from the various cereals. It was found on trial to be very nutritious, — far more so than oat or rye meal.

By actual experiment, not only did the soldiers thrive upon porridge and bread made of this meal, so rich in vegetable oils, but they became very fond of it as a daily food and ate it with good appetite, even in their soups.

As the cost of the meal is very slight, it will be a matter of economy to make groundnut meal one of the ingredients of the daily food of the German soldier. Arrangements have already been made to import large quantities each year from Africa for use in making meal for army consumption in Germany.

You will doubtless be surprised to learn that the groundnut is really only a species of the familiar peanut. So it is really an old friend with a new name. It is sometimes called ground pea, or earth nut. The

former name is given to it because its pod resembles the pod of the pea vine.

In the southern portion of the United States a similar nut bears the name gouber. Not only are the nuts of this plant of value as an article of food and commerce, but the vines form an excellent fodder for cattle.

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## CHAPTER LII.

### VARIETIES OF VEGETATION.

In the Barbary States, which border upon the Mediterranean Sea, there is an extensive cultivation of grain. Wheat, barley, maize, rice, and a variety of corn called Kaffir corn, are found in considerable quantities. Figs and olives thrive luxuriantly, and pomegranates, grapes, and melons abound.

Tobacco has been introduced and has been cultivated to quite an extent. The white mulberry tree is also cultivated, for use in the silkworm culture. Here, too, are found the indigo and cotton plants, together with the sugar cane, while most of the kitchen vegetables of Europe are easily cultivated.

South of the Barbary States, in the mountainous districts of the Atlas range, is found a peculiar kind of timber growth. It bears the name sandarach, and is almost imperishable. It is generally supposed to be the same species of wood mentioned as the shittim wood in the Scriptures. The ceilings of the Moham-

median mosques are largely, if not exclusively, built of it.

Passing beyond the chain of the Atlas Mountains, the vegetation changes. There are now but few trees, and there is a noticeable dryness in the atmosphere. It is in these regions that rain seldom falls, while such is the heat of the winds that it is scarcely bearable even by the natives.

Here, the palm, by divine Providence, affords a grateful shade. The mass of foliage formed by its fan-like leaves is almost impervious to the scorching heat, and beneath its towering yet graceful form the orange, lemon, pomegranate, and vine flourish. Strange to say, their fruits, grown thus in the cooling shade, seem to acquire a peculiar richness of flavor not noticeable in those grown in the ordinary way.

The vegetation of Egypt may be said to be somewhat of an intermediate character, for it partakes of the characteristics of the several sections we have already had described.

In the parts watered by the Nile there are found rich productions of grains of all kinds, while in the southern and drier portions are found only stunted, miserable-looking bushes and shrubs. These dispute with the drifts of accumulating sand for the possession of the native soil of these sections.

Indigo and tobacco are found in the parts of Egypt which have the richest soil. Cotton has been cultivated to some extent, by means of an expensive and laborious system of irrigating the soil.

Along the Senegal the cotton plant flourishes, in its



rich, well-watered soil, almost without care or cultivation. One can scarcely estimate what quantities of cotton could be raised under careful and painstaking labor. Coffee grows luxuriantly in all the fertile sections of Africa, and is very abundant.

In the deserts of the interior the eye is greeted by very different pictures from those which the other sections of Africa present. These deserts are mostly destitute of plants, and the few they have are of stunted growth. A very remarkable kind of grass covers entire districts, to the great annoyance of the traveler, on account of its prickles. Agoul, a plant peculiar to the desert, furnishes food for the camel.

In the equatorial parts of Africa all trees peculiar to European countries are lacking. Even the date tree is seldom seen. While the flora of these tropical regions resembles somewhat that of India, yet there are peculiarities of vegetation which belong strictly to African localities.

Here are found masses of the baobab trees of which we have read, and whose fruit furnishes the refreshing drink so necessary to the natives. Here, also, are found the cotton trees, the bases of which form great buttresses; while shrubs in no inconsiderable variety and rich and varied verdure cover the soil. Groups of palm trees, sago palms, and other varieties of the same family bend down to the water's edge along the great streams.

In the thickets climbing plants of every description twine among the branches of the trees. One variety has recently been discovered which yields a very good species of india rubber. These specimens of plant life,

with the masses of wild flowers, showing a brilliant coloring of mingled scarlet, orange, and white, make a scene of rare beauty.

While there is so much that is new and strange in these tropical regions, yet the absence of waving fields of grain and corn is strongly noticeable. Here, too, the vine is quite unknown. The fig is of little or no use, except in a few localities. Only the orange and the lime remain to remind us of the usual fruits of the tropics.

Here and there may be found various kinds of apples and plums; but, owing to the intense heat, they do not attain any perfection of size or flavor. It is a curious fact that all the fruit is not only small and undeveloped, but seems to lose, in a large degree, not only its peculiar flavor, but its succulent juices as well.

In some places in the wooded sections pineapples are very abundant, and seem to be as well established as in their native soil in tropical America.

In the tropics, wherever a broad belt of alluvial soil is exposed by the fall of the tide, as on the shores of the sea, in the estuaries of rivers, and in the shallow lagoons, we may expect to find a dense vegetation of mangroves.

These water-loving trees seem to seek the salt water sections in preference even to other localities equally damp. Their growth is peculiar and picturesque. The seeds germinate on the branches, increase to a considerable length, and then fall into the mud. Here, with their sharp points lying buried, they soon take root.

As the mangrove grows upwards, roots issue from



the trunk and low branches, and ultimately strike into the muddy ground, where they grow and present the appearance of a series of loops and arches, from five to ten feet high, which support the body of the tree like so many stakes.

Their matted roots interrupt the flow of the waters, and by retaining the earthy particles that sink to the bottom between them, gradually raise the level of the land. As the new land is thus built up, seeds begin to grow in it, and thousands of roots descend, still further to consolidate it. Thus, year after year, the mangroves extend the land into the sea.

As we approach the southern portion of the great peninsula of Africa, we find a wilderness of sand. This barren tract occupies the central portion of the country. Here there is little or no vegetation to attract the eye.

In the table-lands of Cape Colony there are numerous fleshy, leafless tribes of aloes and other plants. These fix their hold in the sand by means of a single tough, wiry root. For conveying nourishment to the plants, these roots must be practically useless, since the soil affords little food. Hence the main sustenance of these plants must come from the dews with which a wise Creator supplies their needs. Many varieties of heath are found here, among other plants.

Upon the hills and rocks of some sections of Africa is a curious tribe of plants which seem partly of the nature of palms and partly of the nature of ferns. They may be said to be of an intermediate family. These fernlike palms literally cover the hills and rocky

slopes. After a rain, such portions of the country as have been watered by nature's hand blossom forth into indescribable beauty; for the gladiolus, oxalis, and other native plants are in brilliant bloom.

At Cape Town the American aloe tree has been introduced, and vast impenetrable hedges have been formed by the interlacing of its spinelike leaves, which are often six feet in length. Here, too, flourish the oak and pine of Europe, for the climate is most favorable to their growth.

We have had occasion to speak of the thick-leaved, cactuslike plants of the desert, which seem to prefer the arid soil of the naked plains, where they are fully exposed to the burning rays of a tropical sun.

They furnish a great contrast to the delicately feathered mimosas of the more fertile sections of the continent. Among all the lovely children of Flora, the goddess of flowers, none can rival these plants in the beauty of their foliage.

One can gain but a faint idea of the beauty these plants attain under a tropical sun. In most species the branches extend horizontally, or are umbrella-shaped, and the deep blue sky, shining through the light green foliage, has a very picturesque effect.

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## CHAPTER LIII.

### VIEWS OF ANIMAL LIFE.

As we study the animal life of Africa, we can but notice the great variety in its species. We find not

only those kinds with which we are most familiar, and those which have become known to us through our study of other continents, but many new and strange ones, characteristic of Africa alone.

Here are found the lion, leopard, jackal, hyena, and other carnivora of the cat and dog families. Varieties of the thick-skinned animals are numerous; for we find a species of elephant somewhat different from the elephant of Asia, several varieties of the rhinoceros, the hippopotamus, the wart hog, and boar, all ugly, unwieldy and clumsy in their form and movements.

In the tropics are found great varieties of monkeys, chattering wildly as they spring among the branches of the trees. The fierce gorilla haunts the dense forests, to the terror of the natives and travelers.

Du Chaillu, the explorer, had an encounter with gorillas while crossing the Sierra del Crystal to reach the Fan country. During the journey he had occasion to scale a range of granite hills and to traverse an elevated table-land. Here he found the temperature quite cold at night.

As he climbed a second range of hills he came upon the Ntambounay Falls. These he declared to be one of the grandest sights he ever beheld, and adds:—

“It was not a waterfall, but an immense mountain torrent, dashing downhill at an angle of twenty-five or thirty degrees, for not less than a mile right before us, like a vast, seething, billowy sea.

“The river course was full of the huge granite boulders which lie about here as though the Titans had been playing at skittles in this country; and against these

the angry waters dashed as though they would carry all before them, and breaking up, threw the milky spray up to the very tops of the trees which grew along the edge.

"Where we stood, at the foot of the rapids, the stream took a winding turn up the mountains; but we had the whole mile of foaming rapids before us, seemingly pouring its mass of waters down on our heads."

It was just above these falls that Du Chaillu shot an immense serpent. One can imagine the feeling of repulsion with which he saw his men cut off its head and divide the body into pieces, which they roasted and ate with relish.

A short distance beyond the spot, he came upon the footprints of what the natives declared to be gorillas. These footprints were so fresh that it was decided to give chase to the creatures which had made them. The gorillas were, however, very agile, and soon escaped into the forest depths.

Du Chaillu, in speaking of his experience, says: "I protest I felt almost like a murderer when I saw the gorillas the first time. As they ran, on their hind legs, they looked fearfully like hairy men, their heads down, their bodies inclined forward, their whole appearance like men running for their lives.

"Take this with their awful cry, which, fierce and animal as it is, has something human in its discordance, and you will cease to wonder that the natives have the wildest superstitions about these 'wild men of the woods.'"

One of the superstitions, common wherever the gorilla

is to be found, is that the spirits of certain departed negroes have entered the bodies of a particular species of gorilla. The gorillas of this species can never be caught or killed, since they bear a charmed life. The natives claim, too, that these gorillas show more shrewdness and sense than ordinary animals. In a word, they combine the intelligence of man and the strength and fierceness of the brute creation.

In further description of a gorilla hunt Du Chaillu continues: "I noticed, ahead of us seemingly, a noise as of some one breaking down branches or twigs of trees. This was the gorilla, I knew at once by the eager and satisfied looks of the men.

"They looked once more carefully at their guns, to see if by chance the powder had fallen out of the pans; I also examined mine, to make sure that all was right, and then we marched on cautiously. The singular noise of the breaking of the branches continued. We walked with the greatest care, making no noise at all.

"The countenances of the men showed that they thought themselves engaged in a very serious undertaking; but we pushed on, until finally we thought we saw through the thick woods the moving of the branches and small trees which the great beast was tearing down, probably to get from them the berries and fruits he lives on.

"Suddenly, as we were yet creeping along, in a silence which made a heavy breath seem loud and distinct, the woods were at once filled with the tremendous barking roar of the gorilla.

"Then the underbrush swayed rapidly just ahead,

and presently before us stood an immense male gorilla. He had gone through the jungle on all fours, but when he saw our party he erected himself and looked us boldly in the face.

“He stood about a dozen yards from us, and was a sight, I think, never to forget. Nearly six feet high, with immense body, huge chest, and great muscular arms, with fiercely glaring, large, deep-gray eyes and a malignant expression of face, which seemed to me like some nightmare vision,—thus before us stood the king of the African forests.

“He was not afraid of us. He stood there and beat his breast with his huge fists till it sounded like an immense bass drum, which is their mode of offering defiance, meantime giving vent to roar after roar.

“The roar of the gorilla is the most singular and awful noise heard in these African woods. It begins with a sharp bark, like an angry dog, then glides into a deep bass roll, which literally and closely resembles the roll of distant thunder along the sky, for which I have sometimes been tempted to take it where I did not see the animal. So deep is it that it seems to proceed less from the mouth and throat than from the deep chest of the creature.

“His eyes began to flash fiercer fire as we stood motionless on the defensive, and the crest of short hair which stands on his forehead began to twitch rapidly up and down, while his powerful fangs were shown as he again sent forth a thunderous roar.

“And now he truly reminded me of nothing but some horrible dream creature,—a being of that hideous order,

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half man, half beast, which we find pictured by old artists in some representations of the lower regions.

“He advanced a few steps, then stopped to utter that hideous roar again, advanced again, and finally stopped when at a distance of about six yards from us. And here, as he began another of his roars, and beating his breast in rage, we fired, and killed him. With a groan which had something terribly human in it, and yet was full of brutishness, he fell forward on his face.”

As soon as the great beast was dead, the men cut up the carcass and divided it in portions to be cooked. The brains were carefully preserved as charms. When prepared in one way, the charm gives the wearer a mighty arm for the chase; when in another, it renders the possessor popular and a favorite in savage society.

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## CHAPTER LIV.

### THE ANTELOPE FAMILY.

In place of the deer, so familiar to us in the study of other countries, we find numerous specimens of the great family of antelopes. Some writers have named as many as twenty varieties.

Among the antelope family the gnu, or horned horse, is perhaps the most curious specimen. In size it is about as large as an ass. In form it has the body, neck, mane, and tail, like those of a horse, while the legs and horns are like those of the antelope.

The gnu is very spirited, and full of gambols. Its sense of smell is acute, and its sight very keen. It may be seen in herds on the plains which border upon the Orange River, where its free and varied movements, full of grace, can but attract the attention and awaken the interest of the observer.

The gazelle is the fleetest of the antelopes of Africa. It is usually quite small. One variety is no larger than a hare. Other varieties are as large as a deer. It is famed for the beauty of its eyes and the grace of its movements.

The eland is another species which abounds in South Africa wherever fertile plains or low hills exist. In the parts of Cape Colony which have been longest settled, however, it has been so hunted that specimens are rarely seen.

Livingstone describes the eland as the most magnificent of the antelopes. It belongs to the variety called bovine antelope, from the fact that it has some of the characteristics of the ox tribe. In spite of these peculiarities of structure, the eland is not only a very beautiful, but a very graceful animal. It is about the size of a horse. It stands fully five feet high at the shoulders, and weighs from seven to nine hundred pounds.

The horns of the eland are almost straight, turning backwards and inwards. They are quite pointed at the ends. They are very strong, and their great strength is increased by the peculiar spiral formation. They remind one vividly of the old-fashioned paper lamp-lighters used when matches were not so common and the large open fireplaces were found in every home.



The eland has quite a swelling, or protuberance, of the larynx, similar to that found in the elk. Its tail resembles that of the ox, and has a tuft of long black hair at the end. It may be termed a gregarious animal, since it is always found in herds, which are often very large.

These animals are generally very plump and well filled out in all parts. As they are gentle and not difficult to capture, they furnish sport for the hunters who pursue them. The flesh is much prized. The muscles of the thighs are considered the finest parts. These are dried like tongues.

It is rather a matter of surprise that no attempt has been made to domesticate the eland, possessing, as it does, so many excellent qualities and serving so many useful purposes.

Livingstone describes a species which he found north of Cape Colony as having a very marked bovine form to the body, more so than in the common species, marked with narrow transverse bands of white.

The springbok is another variety of antelope. It is one of the most beautiful and graceful, as well as one of the most numerous, species to be found in South Africa. It is found in immense herds of a thousand or more when the season arrives for it to migrate to the north or when the weather is suitable for it to return to the south.

The springbok derives its name from the habit it has of leaping as it runs. Its leaps are often from fifteen to twenty-five feet. It is extremely beautiful, with its graceful form and fine colors. In size it is larger than

the roebuck. Its neck and limbs are not only longer but much more slender.

The general color of the springbok is a tawny brown on the upper parts of the body. Beneath the body the color is pure white. The colors are separated upon the flanks by a broad band of deep, rich, red wine color.

The head of the animal is white, with the exception of a broad band of brown on each side, which reaches from the eye to the mouth. There are two curious folds of skin which start from the tail and extend to the middle of the back. These folds are usually closed, but open out when the animal is bounding. When open they disclose a large triangular space, which at other times is entirely hidden.

The springbok ordinarily makes its home in the arid, sandy plains called karroos. When, however, the pastureage becomes burned from the heat of the sun, the herds migrate in immense numbers to other sections. Often, as they migrate, they destroy the fields of the colonists in their line of travel.

One writer speaks of seeing the country around Little Fish River specked, as far as eye could reach, with immense herds of springboks. These he estimated as numbering twenty-five to thirty thousand animals.

Another writer describes a still more wonderful sight, where, through an opening among hills, a vast herd poured for hours together in a compact moving mass, half a mile broad.

So immense are these herds of springboks that when a lion or a leopard, lurking on the outskirts of the mass, is swept into the ranks, he is virtually taken prisoner

and has to march along in the midst, a captive not a captor.

When young the springbok is easily tamed. It then becomes a very active, over-familiar, tricky, and troublesome pet.

## CHAPTER LV.

### SOME OF THE RUMINANTS.

The domestic animals, such as the cow and sheep, have been introduced into Africa with great success, but they are not native to the continent.

Of the ruminants, or cud-chewing animals, of Africa, the giraffe is a most beautiful yet peculiar specimen. It is found in a wild state only in South Africa. Its name is taken directly from the Spanish language, which received the word from the Arabic tongue. The word in the original signifies *long neck*.

The animal is sometimes called camelopard, from two Greek words which signify camel and panther, since in some respects it is like a camel, while its spots are suggestive of the panther.

The first giraffe ever seen in Europe was exhibited in the circus at Rome under Julius Cæsar. Other emperors exhibited them at different times; but, after the fall of Rome, no living specimen of the animal was ever taken to Europe until the early part of the present century. At that time the Pacha of Egypt gave a specimen to France and one to England.

Since then specimens have often been brought from Africa for exhibition in menageries, both in England and in our own country.

When full-grown the giraffe is from sixteen to seventeen feet high. This is nearly three times as tall as a man. The long neck of the animal enables it to reach the tops of trees, from which it gathers the leaves as its chief food.

It has a long, slender tongue, which it can extend far out of its mouth to draw down leaves and branches within its reach.

Two short horns grow between its ears. These are not like those of an ox, but are merely bones covered with a hairy skin.

The giraffe has rather a short body. The front legs are longer than the hind legs, so that the body is higher in front than behind. The back forms a decided slope from the neck to the tail. The legs are slender, while the feet are cleft, like those of an ox. The skin is of a light reddish-orange color, marked with large spots of a decidedly darker shade, and covered with short hairs. Upon the neck is a long mane, and at the end of the tail is a tuft of black hair.

African travelers state that the giraffe, when found in a wild state, is much handsomer than when kept in captivity. In a wild state the color of the skin changes its tints in strong lights and shades, as the animal moves about.

The giraffe has eyes more beautiful even than those of the gazelle, according to some writers. It can see to a great distance and has a keen sense of smell.

When the wind is blowing towards it, it can scent a hunter a long way off. For this reason it is very difficult for a hunter to approach it. Sometimes he conceals himself behind tall grass and bushes; but he is often discovered there by the giraffe, for its tall neck enables it to look over almost any bush.

The giraffe, like the camel, has an awkward gait, since it moves both legs on one side of its body at a time, as a horse does in pacing. It can run very fast, and only a very swift horse is ever able to overtake it. It usually lives in families of a dozen or more. The home is generally along the edges of the deserts. Instinct seems to teach the animal to make its home where it can see in all directions and be on the watch for its enemies, the lion and the panther.

In the open country the giraffe can usually get away by running; but should it be attacked in the woods, it strikes out for its foe with great force from its fore feet. The blow often disables or kills its enemy, though sometimes the giraffe is overpowered and killed.

The Hottentots lie in ambush around the haunts of the giraffe, chiefly where it has watering places. They kill it by means of poisoned arrows. The flesh is eaten, and the thick skin is made into cups, leather bottles, and straps.

The Arabs, too, hunt the giraffe. They are very fond of its flesh, and out of its skin they make leather shields. Its sinews and tendons they make into thread and strings.

The giraffe, as we see it in the menageries, has probably been kept in captivity from babyhood. It is very

seldom that a full-grown specimen is caught. When a baby giraffe is captured it soon becomes tamed, provided it can be made to eat. Often, however, it will refuse all food, and will pine for its mother, like any other baby. It soon dies then for lack of nourishment.

In the menageries the keepers feed the giraffe upon grain, Indian corn, carrots, and hay.

The buffalo is probably the fiercest and the most powerful of all the cud-chewing animals. The Cape buffalo is regarded by naturalists as quite a distinct species from other buffaloes. It is about eight feet long from the base of the horns to the tail, and stands five and one-half feet high. It is considered much more formidable than any other animal of South Africa. This species does not seem to have ever been domesticated, although there is good reason to believe that it could be.

Its horns are very large and spread out almost horizontally over the top of the head. They then bend downward and at the ends take an upward turn. Like the common buffalo, the animal carries its muzzle in a projecting position, with its horns reclining on its shoulders. As it grows older, the narrow space between the horns at the base becomes filled with solid bone as hard as iron. It is thus able to defend itself against any enemy, whether man or beast.

The buffalo is almost always a match for a lion or a leopard. A herd of buffaloes will become as much excited at the sight of a lion as oxen would over a strange dog. If the lion does not succeed in escaping, the herd will kill him by tossing him from one to another on their horns and trampling him under foot.



On no account will a hunter provoke an encounter with a buffalo, unless the chances are greatly in his own favor, and unless he has every facility for escape. Its great size and strength render it a formidable foe. It is still found in large herds in the interior of South Africa. In Cape Colony, however, though once very common, it is now seldom seen.

The hide of the buffalo is so tough and thick that the Kaffirs make their shields of it. These shields are impenetrable even to musket shot. Huntsmen in shooting at buffaloes use bullets mixed with tin; yet these often become flattened when they strike the tough, resisting hide of the animal.

Its coat is of very scant, irregular hair, somewhat bristly in appearance, and often so thin that the smooth brown skin shines through when the sunlight falls upon it. The smooth, oily polish of the skin is no addition to the appearance of the animal. In fact, it is rather an unpleasant feature of it.

The buffalo is well adapted for marshy districts. It will frequently immerse itself in muddy waters, till only its head can be seen. Here it will stand for hours, protecting its body from insects by a coating of mud. Its food consists of coarse, rank herbage common to the marshes. For this food it seems to have a preference.

The Cape buffalo has a habit of grazing generally in the evening. During the day it lies at rest in the woods and thickets.

## CHAPTER LVI.

## VIEWS OF ELEPHANTS.

Of the thick-skinned animals the elephant is perhaps the most interesting to be found in Africa. The African elephant is much larger than that of Asia, and is rarely, if ever, found tame in menageries. It may be known by its enormous ears, which are three times as large as those of Asiatic elephants. It is very wild and fierce.

The Arabs hunt the elephant for its tusks. These form a staple export, namely, the ivory of commerce. Doubtless thousands of elephants are killed yearly in Africa to supply the demand for ivory. Hence the supply must needs in time cease, as the animal becomes extinct.

The Arabs are the chief of elephant hunters. They usually hunt them on horseback, though they not unfrequently go on foot. When on foot they follow the tracks of the animal, planning to come upon it at noon, when it is usually asleep or lying in the shade to rest.

When an elephant is found asleep, a hunter creeps up and cuts off its trunk with a cruel stroke of the sword. The poor creature, feeling the blow, struggles to its feet, but is so bewildered and stupefied with pain that the hunter escapes and the sufferer bleeds to death in about an hour.

Should the animal happen to be awake, the hunters creep up behind it and cut the sinews of one of the hind

legs just above the heel. This disables it so it cannot stand upon the leg, and hence cannot run. It is but the work of a few minutes to cut the sinews of the other hind leg, when the animal falls to the ground. An artery is then cut, and the unfortunate creature soon bleeds to death.

In a hunt on horseback, the Arabs chase the elephant until they get it so angry that it will turn upon them. It is the work of one hunter then to let the elephant almost overtake him, while he keeps his horse just out of reach of the enraged animal's trunk, with which it tries to seize the steed.

So intent is the elephant upon chasing and capturing this enemy that it does not pay any attention to the other mounted hunters. As soon as one of them can get near enough, he jumps off his horse and cuts the cord of the animal's leg with a powerful blow of his sword, which he wields with both hands.

This done, he jumps upon his horse again. The elephant is now disabled; but, in its frenzy of pain, it struggles to keep its footing upon three legs and retaliates upon its foes. They are too powerful for it, and in a short time the other hind leg is likewise disabled. The animal then falls to the ground, and soon dies from loss of blood. Elephant hunts of this description are exceedingly dangerous. Hunters are not infrequently caught and killed by the infuriated animals.

There are various other ways of capturing the elephants. Among these may be mentioned the native custom of digging pits and covering them with branches of trees and brush concealed under a layer of earth. The

elephant is likely to step into one of these pits if pursued, and is soon at the mercy of its captors. Sometimes the natives burn the grass of the steppes, or plains, and thus surround the bewildered animal by fire.

It is not pleasant to think that the poor inoffensive elephant is thus cruelly hunted to its death that man may be the gainer. All sport that tends to cruelty can but make us wish that man would be more humane to dumb creatures.

Arabs esteem the flesh of the elephant as a great delicacy. The meat is fat and juicy, but it has coarse fibers and a rank smell. The trunk and feet are considered the most delicate portions for eating, and they are very good when well cooked.

When the natives wish to cook one of the enormous feet, they first dig a hole, nearly a yard wide, in the ground. This is filled with wood, which is kept burning until the sides of the hole are very hot. The fire is then put out and the food to be roasted laid upon the hot embers. The hole is first covered over with green wood and wet grass. It is then plastered with mud, which is stamped down until hard and compact. In order to keep all the heat in, earth is then piled over this queer oven, and the whole structure, with its contents, is left undisturbed for more than a day and a half. When the mound is opened, the foot is found so well baked that the bottom drops off, like the sole of an old shoe, while there is sufficient tender, juicy meat inside to feed fifty hearty men.

The elephant in its native state is quite a pioneer. The jungle thickets are not infrequently choked by

underbrush and interlaced with ropelike, trailing plants. These would make the forests well-nigh impenetrable were it not that the monarch of the elephant herd and his followers break a pathway through these sylvan shades.

They force a way through the thickets and trample down and break off the larger branches that obstruct the way. The lighter and loftier branches yield to the pressure of the huge, massive bodies of the herd, as the creatures pass, but spring back into place again to meet in Gothic arches overhead. The immense animals march along in Indian file, and having once broken a pathway soon tread it down as bare and almost as regular as a gravel path.

Were it not for the service thus rendered by the elephant as a pioneer, many of the dense, thorny forests would soon become choked with underbrush and the interlacing of the branches of trees and various creeping plants. Even with the help thus given in forcing a passage through these forest jungles, progress seems almost impossible, though one be very adroit and willing to exert himself to the utmost limit of endurance.

It is interesting to note the chief differences between the Asiatic and the African elephant. In the latter the head is much more rounded, the tusks much larger, and the ears of enormous size,—so large, in fact, as sometimes to cover the entire shoulders. It is said that the natives use the ears as a sort of truck on which to drag loads.

In the African elephant the molar teeth are marked with large, irregular, oval-shaped ridges upon their

thin, flat surfaces. These ridges pass from side to side. In the Asiatic elephant these ridges are like narrow ribbons with indented edges running in parallel lines.

The poet has thus pictured the elephant in its native forest jungles:—

“ Wisest of brutes, the half-reasoning elephant,  
Trampling his path through wood and brake  
And canes, which crackling fall before his way,  
And tassel-grass, where silvery feathers play,  
O'ertopping the young trees;  
On comes the elephant, to slake  
His thirst at noon in yon pellucid springs,  
Lo! from his trunk upturned, aloft he flings  
The grateful shower; and now  
Plucking the broad-leaved bough  
Of yonder plume, with waving motion slow  
Fanning the languid air,  
He waves it to and fro.”

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## CHAPTER LVII.

### VIEWS OF THE HIPPOPOTAMUS.

The hippopotamus is a most peculiar, unwieldy animal, found only in Africa. Numerous fossil remains that have been found in other parts of the globe, would tend to prove that this animal was more widely distributed in prehistoric times.

Until quite recently but one variety of the hippopotamus was known in Africa. A new and distinct

variety has been found frequenting the large rivers of West Africa within the tropics. This differs from the other very materially in size. It is much smaller, in fact. It is said, also, to differ from the common hippopotamus and from all fossil specimens in having only two incisors, instead of four, in the lower jaw.

The hippopotamus is aquatic in its habits. It lives mostly in lakes or in rivers. Sometimes it is found in tidal estuaries, where the saltiness of the water forces it to resort to springs in order to find water to drink. It has been found sometimes in the sea, but never at any great distance from the shore.

It may be said to be amphibious in its nature; for it spends most of its time in the water, but frequents the land in search of food, which consists of various plants that grow in shallow waters, or that may be found along the shores of lakes and margins of rivers.

The animal is of no little service in keeping the current of sluggish streams free from the luxuriant growth of tropical vegetation. Were it not that the creature browses upon this growth, the streams would soon become choked, and their beds would become dismal swamps, of the kind common to Africa.

When in want of food from the land these animals leave the water at night to feed along the banks, or to make havoc in the cultivated fields, as they trample down and devour the crops. As they always travel in herds of twenty or thirty, it is no small misfortune for a herd to visit any section under cultivation. It is little wonder, then, that war has been waged against them, until in some regions they have ceased to exist.

Doubtless this accounts for the fact that they are no longer found in the districts of Lower Egypt, though found to quite a large extent farther up the Nile.

The common hippopotamus is one of the largest of all living animals. The bulk of its body is very nearly as great as that of the elephant. Its legs, being very short, give it a most ungainly gait as it tries to support its great bulk in walking. Unlike the elephant, it is not a very tall animal, its height rarely reaching above five feet.

The hippopotamus, like the elephant, belongs to the family of *thick-skinned* animals. The skin on its back and sides is more than two inches thick. The skin is described as dark brown in color, and almost destitute of hair. It is kept constantly lubricated by means of the numerous pores, which exude a thick, oily fluid in great abundance.

The neck of the hippopotamus is short and thick, while the head is very large. Its small eyes and ears are placed so high on the head that, in spite of the shortness of the neck, they can easily be kept above the surface of any body of water in which the animal may lie almost hidden from view. The muzzle is very large, with a rounded, swollen surface. The great ugly nostrils and huge lips, which conceal the large front teeth, give the animal a most unattractive and repulsive expression.

It can cut down grass or corn with its large front teeth as well as if it were done with a scythe. So great is the strength of the teeth that stems of considerable thickness can be easily and neatly bitten through like a blade of grass.

— • —

The legs of the hippopotamus are, as we have seen, short and thick. Its feet are divided into four toes of nearly equal size, each covered with a horny hoof. Its short tail and the shape of its skull remind one of the pig family.

It breathes very slowly, and hence is enabled to remain under water for a long time, coming to the surface only at intervals for air. It can swim and dive easily, and often amuses itself by walking along the bottom of the river or lake with its body completely under water.

It is very active and playful in the water, but it soon learns to hide away from man. If it cannot conceal itself among the reeds, it dives under water and remains there hidden from sight, raising only its nose above water, as it finds it necessary to take another breath. It is no unfrequent thing to see the mother hippopotamus swimming across a stream with her little one clinging to her back.

By nature the hippopotamus is rather an inoffensive animal. Occasionally it becomes greatly enraged, as when pursued by hunters in boats, and then may be well considered dangerous. Its voice, which is loud, harsh, and grating, has been likened to the creaking and groaning of a large wooden door upon its rusty hinges.

Like the elephant, the hippopotamus can be tamed. It then becomes much attached to man. In its wild state it commits such mischief among the crops of the fields and in sections under cultivation that it is closely hunted. Sometimes it is taken in pits which are dug along its usual tracks. Sometimes it is killed by

poisoned arrows, or by pursuing it in canoes. The natives harpoon it or shoot it with rifles.

Its flesh is highly prized. Under the skin there is a thick layer of fat, which is considered a great African delicacy. This fat, when salted, is called "lake-cow bacon" at the Cape of Good Hope. The tongue is much esteemed, as is also a jelly made from the feet. The thick hide is used for a variety of purposes. The great front teeth are very valuable as ivory and form an important feature of African commerce.

Livingstone gives an interesting description of a tribe of hippopotamus hunters, whose ancestors for generations had followed the same pursuit:—

"They follow no other occupation, but when their game is getting scanty at one spot they remove to some other part of the Loangwa, Zambesi, or Shiré, and build temporary huts on an island, where their women cultivate patches. The flesh of the animals they kill is eagerly exchanged by the more settled people for grain. They are not stingy, and are ever welcome guests. I never heard of any fraud in dealing, or that they had been guilty of an outrage on the poorest; their chief characteristic is their courage.

"Their hunting is the bravest thing I ever saw. Each canoe is manned by two men; the canoes are long, light crafts, scarcely half an inch in thickness, about eighteen inches beam, and from eighteen to twenty feet long. They are formed for speed and shaped somewhat like our racing boats.

"The crew use broad, short paddles, and as they guide the canoe slowly down stream to a sleeping hippopota-



mus, not a single ripple is raised on the smooth water. They look as if holding in their breath, and communicate by signs only.

“As they come near the prey, the harpooner in the bow lays down his paddle and rises slowly up, and there he stands erect, motionless, and eager, with the long-handled weapon poised at arm’s length above his head, till, coming close to the beast, he plunges it with all his might in towards the heart.

“During this exciting feat he has to keep his balance exactly. His neighbor in the stern at once backs his paddle, the harpooner sits down, seizes his paddle, and backs, too, to escape. The animal, surprised and wounded, seldom meets the attack at this stage of the hunt. The next stage, however, is full of danger.

“The barbed blade of the harpoon is secured by a long and very strong rope wound round the handle. It is intended to come out of its socket, and while the iron head is firmly fixed in the animal’s body, the rope un-winds and the handle floats on the surface.

“The hunter next goes to the handle and hauls on the rope until he knows that he is right over the beast. When he feels the line suddenly slacken, he is prepared to deliver another harpoon the instant that hippo’s enormous jaws appear, with a terrible grunt, above the water.

“The backing by the paddles is again repeated, but hippo often assaults the canoe, crunches it in his jaws as easily as a pig would a bunch of asparagus, or shivers it with a kick by his hind foot.

“Deprived of their canoe the gallant comrades in-

stantly dive and swim to the shore under water. They say that the infuriated beast looks for them on the surface, and being below they escape his sight. When caught by many harpoons, the crews of several canoes seize the handles and drag him hither and thither till, weakened by loss of blood, he succumbs. This hunting requires the greatest skill, courage, and nerve that can be conceived."

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## CHAPTER LVIII.

### VIEWS OF THE RHINOCEROS.

The rhinoceros derives its name from two Greek words meaning *nose-horned*. Like the elephant and the hippopotamus it belongs to the thick-skinned animals. It ranks among the largest and most powerful of the land animals. The elephant, however, we may consider its superior in size and strength.

The form of the rhinoceros is clumsy and uncouth; while its appearance is dull and heavy. It has thick strong limbs, with feet that are divided into three toes covered with broad, horny nails resembling hoofs. The tail is short, with a small tuft of hair at the end.

The ears are of moderate size, but the eyes are extremely small. The head is large, with a somewhat lengthened muzzle; while the bones of the nose are formed into an arch to give support to a kind of rudimentary horn, which grows out from the skin. This horn is a very peculiar organ, and can be used as a

powerful weapon when needed, or it can be used to root up bushes and small trees from which the animal wishes to eat the foliage and fruit. Though solid, it is not of a bony substance, but resembles in some ways the horny excrescences on the inner surface of a horse's legs. It is, in reality, a mass of tubes around which the horny substance is packed in circular layers one within the other. Sometimes a second horn, also starting from the skin, grows above the first, and rests for support upon the bones of the forehead. The upper lip of the rhinoceros is somewhat prolonged, and also prehensile to no small degree. By means of it the animal can pick up very small objects.

The whole body, the head, and the limbs are covered with a very thick, hard skin. This skin has very little hair, showing, generally, mere traces of it. A striking peculiarity of the skin is that its extreme hardness does not permit the free movements of the animal. This lack of pliancy in the skin is overcome in a measure by means of thick folds, almost joints, in it, in the region of the neck, behind the shoulders, in front of the thighs, and on the limbs.

The rhinoceros is not a very intelligent animal. It is usually harmless, but can be easily provoked. It is then capable of showing a very capricious temper. When irritated it becomes very dangerous; and though usually very slow in moving, it can, when worked into a frenzy, run at a rapid rate.

Its great weight and strength enable it to force a passage through jungles and forests, and thus to break down all small trees that come in its way.

Its hide is so tough that the animal has nothing to fear from the lion or the leopard, and little to dread in man. It is only at a short distance that the hunter can penetrate the hide with a leaden bullet, and then only in some of the thinnest parts along the neck and chest. Usually bullets of iron or tin are used to shoot the animal.

The rhinoceros, like the hippopotamus, is hunted for its flesh, which is used as food by the natives, though it is not as highly prized as that of the hippopotamus. The tough hide of the South African species is sliced up into thongs, which the natives use in various ways.

The rhinoceros is found sometimes alone, sometimes in pairs, but never in a herd. There are various species of the animal in Asia and India as well as Africa. Let us confine our attention to the African species alone. The *bovele*, or black rhinoceros of South Africa, is the smallest of all known species. Its first horn is thick at the base and not very long, while its second is quite short and conical. It is a very fierce, dangerous animal. When hunted it is capable of such activity that it is more to be dreaded than the lion.

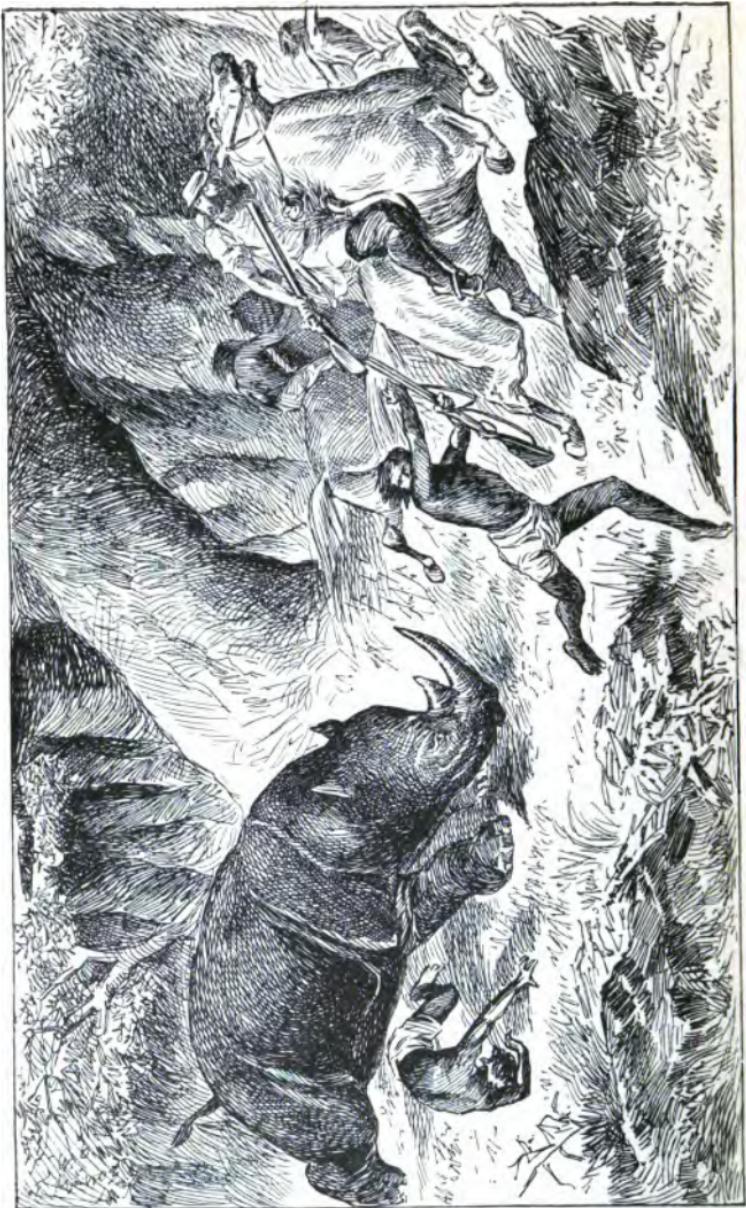
The *keitloa* is larger than the *bovele*, and has its two horns of nearly the same length. The forward horn is curved backward, while the other is curved forward. This species of rhinoceros is also a native of South Africa. It is much dreaded on account of its great strength and ferocity. The white rhinoceros is the largest of all the African species. One of its horns attains the length of four feet.

The food of the black rhinoceros differs from that of

the white. The former species lives almost wholly upon roots, which it digs up with its larger horn. Sometimes it eats the branches and the young sprouts of the thorny acacia tree. The white rhinoceros lives almost wholly upon grasses. Possibly this mild, succulent food gives it a nature resembling more that of the ordinary grazing animals, for it falls an easy prey to the invading Europeans. Even the flesh of the two species varies. That of the black rhinoceros is thin and tough, and has a sharp bitter taste. That of the white rhinoceros is juicy and of a good flavor, and is counted a delicacy by the natives and by the settlers.

The rhinoceros has an extraordinary acuteness of smell and hearing. It listens closely to the sounds of the desert, and can scent the approach of man from a great distance. The size of its unwieldy horns often impedes the range of its small, deep-set eyes, hence it can see only what comes immediately before it. To compensate for its imperfect sight, the rhinoceros is often accompanied by a bird. This bird seems as much attached to it as the dog is to man. Its warning cry acquaints the beast with the approach of danger. When the natives address a superior they call him "My Rhinoceros." This is by way of compliment, and serves to show that the inferior, like this bird, is ready to be of service.

The black rhinoceros has a gloomy, melancholy temper. It often falls into a perfect frenzy of rage from no apparent cause. Yet, to see this creature in its wild haunts, cropping its favorite leaves from the bushes, or moving quietly along over the plains, one might



RHINOCEROS CHARGING THE HUNTERS.

think it one of the most inoffensive and good-tempered animals of the whole continent of Africa. When roused to anger, no more terrific sight can be imagined. The very beasts of the wilderness tremble in fear of it. The lion silently steals away out of its path; even the elephant is glad to escape its notice.

The hippopotamus and the rhinoceros have been styled "gigantic hogs," and they well deserve the name. In South Africa, however, the hog proper reaches a size and strength which we, familiar only with the sleepy, indolent farm species, can hardly conceive.

Andersson, the explorer, says "Wild boars were rather numerous, and afforded us excellent coursing. The speed of these animals is surprisingly great. On open ground, when fairly afoot, I found the dogs no match for them. They fight desperately, and I have seen wild boars individually keep off most effectually half a dozen fierce assailants. I have also seen them when hotly pursued, attack and severely wound their pursuers."

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## CHAPTER LIX.

### LION HUNTING.

The lion has been called the king of beasts, and his majestic form, noble bearing, stately tread, piercing eye, and dreadful roar not only strike terror to the heart of the other animals, but combine to mark him, as it were, with the stamp of royalty.

He is all nerve and muscle, while his enormous strength is shown in the tremendous bound he makes in rushing upon his prey, and in the rapid lashing of his tail. One stroke from his tail is sufficient to fell a man to the ground.

The expressive wrinkling of his brows is a strong characteristic of the lion. Judging from his appearance, man has endowed him with qualities he does not possess. Modern travelers, far from describing him as a noble beast, deem him a mean-spirited robber, prowling about under the secrecy of night to surprise animals weaker than himself.

The chief food of the lion consists of the flesh of the larger herbivorous animals. There are very few animals he is unable to master. The swift-footed antelope has no foe to be so much dreaded as the lion. Concealing himself in the high rushes which line the river's bank, he lies in ambush for the timid herd, till they approach the water at nightfall to quench their thirst. Slowly, cautiously, the beautiful antelopes approach. They listen with ears erect, straining their eyes to pierce the gloom of the thicket. Nothing suspicious nor alarming appears, and the beautiful creatures move along the bank.

They quaff long, deep draughts of the delicious water, without thought of danger. Suddenly, with a mighty spring, as lightning bursts from the cloud, the wary lion bounds upon the unsuspecting herd, and in a twinkling the leader lies prostrate at the mercy of his foe, while his frightened companions fly blindly into the desert.

Andersson witnessed the very uncommon sight of a lion seizing his prey in broad daylight. He had had an encounter late one evening with a lion, and had badly wounded him. The following morning he set out with some of his men to follow the tracks of the wounded animal.

“Presently,” he writes, “we came upon the trail of a whole troop of lions, as also that of a solitary giraffe. So many tracks confused us, and while endeavoring to pick out from the rest those of the wounded lion, I observed my native attendants suddenly rush forward, and the next instant the jungle re-echoed with the shouts of triumph.

“Thinking they had discovered the lion we were in pursuit of, I also hurried forward; but imagine my surprise when, emerging into an opening in the jungle, I saw, not a dead lion, as I expected, but five living lions,—two males and three females,—two of which were in the act of pulling down a splendid giraffe, the other three watching close at hand, and with devouring looks, the deadly strife.

“The scene was of so imposing a nature that for the moment I forgot I carried a gun. The natives, however, in anticipation of a glorious gorge, dashed madly forward, and with the most piercing shrieks and yells compelled the lions to a hasty retreat. When I reached the giraffe, now stretched at full length on the sand, it made a few ineffectual efforts to raise its head, its body heaved and quivered for a moment, and the next instant the poor animal was dead.

“It had received several deep gashes about the flanks

and chest, caused by the claws and teeth of its fierce assailants. The strong and tough muscles of the neck were also bitten through. All thought of pursuing the wounded lion was now out of the question. The natives remained gorging on the carcass of the giraffe until it was devoured. A day or two afterward, however, I had the good fortune to fall in with my royal antagonist, and finished him without difficulty."

#### THE LION'S RIDE.

The lion is the desert's king ; through his domain so wide  
Right swiftly and right royally this night he means to ride.  
By the sedgy brink, where the wild herds drink, close couches the  
grim old chief ;  
The trembling sycamore above whispers with every leaf.

At evening on the Table Mount, when ye can see no more  
The changeful play of signals gay ; when the gloom is speckled o'er  
With kraal fires ; when the Caffre wends home through the lone  
karroo ;  
When the boshbok in the thicket sleeps, and by the stream the  
gnu ;

Then bend your gaze across the waste ; what see ye ! The giraffe,  
Majestic, stalks towards the lagoon, the turbid lymph to quaff ;  
With outstretched neck and tongue, adust he kneels him down to  
cool  
His hot thirst with a welcome draught from the foul and brackish  
pool.

A rustling sound, a roar, a bound, — the lion sits astride  
Upon his giant courser's back. Did ever king so ride ?  
Had ever king a steed so rare, caparisons of state  
To match the dappled skin whereon that rider sits elate ?

In the muscles of the neck his teeth are plunged with ravenous greed;

His tawny mane is tossing round the withers of the steed  
Up leaping with a hollow yell of anguish and surprise,  
Away, away, in wild dismay, the camel-leopard flies.

His feet have wings ; see how he springs across the moonlit plain !  
As from the sockets they would burst, his glaring eyeballs strain ;  
In thick black streams of purling blood, full fast his life is fleeting ;  
The stillness of the desert hears his heart's tumultuous beating.

Like the cloud that, through the wilderness, the path of Israel traced, —

Like an airy phantom, dull and worn, a spirit of the waste, —  
From the sandy sea uprising, as the waterspout from ocean,  
A whirling cloud of dust keeps pace with the courser's fiery motion.

Croaking companion of their flight, the vulture whirs on high ;  
Below, the terror of the fold, the panther fierce and sly,  
And hyenas foul, round graves that prowl, join in the horrid race ;  
By the footprints wet with gore and sweat, their monarch's course they trace.

They see him on his living throne, and quake with fear the while ;  
With claws of steel he tears piecemeal his cushion's painted pile.  
On ! on ! no pause, no rest, giraffe, while life and strength remain !  
The steed by such a rider backed may madly plunge in vain.

Reeling upon the desert's verge, he falls, and breathes his last ;  
The courser, stained with dust and foam, is the rider's full repast.  
O'er Madagascar, eastward far, a faint flush is descried ; —  
Thus nightly, o'er his broad domain, the king of beasts doth ride.

— *From the German.*

The lion is said to have a special liking for the flesh of the Hottentots, and with great obstinacy will follow one of these unfortunate savages.

It commits so much devastation among the herds of antelopes that roam over the plains that hunters in North and South Africa pursue him and kill him wherever he appears.

Dr. Livingstone states that the Bushmen take advantage of the torpidity of the lion after a full meal to surprise him in his slumbers. Their mode of attack differs widely from that of the fierce Arabs of North Africa. While one native discharges a poisoned arrow from a distance, his companion dexterously throws his skin coat over the animal's head. In its surprise and amazement the lion loses its presence of mind and bounds away in a panic, terrified and confused.

The poison used in the arrows of the Bushmen is obtained from a caterpillar about half an inch long. It is a very active poison, causing intense agony to any one wounded by one of these arrows. The effect on the lion is equally distressing. He can be heard moaning in distress, and finally becomes furious, biting the trees and ground in his rage and torment.

The African lion differs somewhat from the Asiatic. The latter has a more compressed form and a shorter mane; sometimes the mane is entirely wanting. Its tail, however, has a much larger tuft of hair at the end.

Africa may be said to be the chief home of the lion. It is the part of the world where his peculiar strength and beauty appear in all their perfection.



## CHAPTER LX.

## INCIDENTAL VIEWS OF ANIMAL LIFE.

In some parts of Africa great numbers of different kinds of mice exist. The ground is often so pierced with their burrows that the foot sinks in at every step. Little haystacks two feet high, and more than that in breadth, are made by one variety of these little animals.

Wherever mice abound, serpents may be expected, for the one preys on the other. Some of these are venomous. They all require water, and come long distances to the rivers and pools in search of it.

Other serpents, according to Livingstone, are harmless, and even edible. Of the latter sort is the great python, the largest specimens of which are about fifteen or twenty feet in length. They are perfectly harmless, and live on small animals, chiefly the rodentia. The flesh is much relished by the Bakalahari and Bushmen. When one is killed, they carry away their portions, like logs of wood, over their shoulders.

The carrion-feeding hyenas may be called the vultures among the four-footed animals. Like the owl and the bat they are averse to light, and conceal themselves in dark ruins or burrows so long as the sun is above the horizon; but, as soon as the shades of night appear, they come forth from their gloomy retreats with a lamentable howl or a satanic laugh.

The striped hyena is found in North Africa as far as the Senegal, while the spotted hyena roams over South

Africa from the Cape to Abyssinia. Both species are about the size of a wolf and have the same habits. The brown hyena, found in South Africa from the Cape to Mozambique and Senegambia, has a more shaggy fur than the preceding species. Its habits are widely different. It is exceedingly fond of the shellfish, which the waves at ebb tide leave upon the beach, or which are found there in great quantities after a severe storm.

It inhabits the coasts exclusively, and is known as the seashore wolf. One can trace its tracks plainly upon the strand; for night after night it prowls along the borders of the sea to examine the refuse left behind by the retreating waves of the restless waters.

Africa, as if to make up for the hideousness of the rhinoceros and hippopotamus, can lay claim to being the birthplace of the beautifully striped zebras. These are the most gorgeously attired members of the equine family.

The tawny quagga, with its irregularly banded body marked with dark-brown stripes, is one species. The peculiar appearance of the animal is enhanced by the arrangement of these stripes; for, though stronger on the head and neck, they gradually become fainter until lost behind the shoulders. Its high crest is surmounted by a standing mane, banded alternately in brown and white. Formerly it was found in great numbers within the confines of Cape Colony. It still roams in large herds in the open plains farther to the north.

One traveler states that in the desert of Meritsane, after crossing a park of magnificent camel-thorn trees, he perceived large herds of quaggas and brindled gnus.



These continued to join each other, until the whole plain seemed alive. The clatter of their hoofs was perfectly astounding, resembling the din of a tremendous charge of cavalry, or the rushing of a mighty tempest. They numbered not less than fifteen thousand, a great extent of country being checkered black and white with their congregated masses.

Burchell's zebra does not differ materially from the common quagga, either in shape or size. The quagga is faintly striped only on the head and neck, but the zebra is adorned on every part of the body with broad black bands, which contrast beautifully with a pale yellow ground.

Major Harris remarks of this animal, "Beautifully clad by the hand of nature, possessing much of the graceful symmetry of the horse, with great bones and muscular power united to easy and stylish action, thus combining comeliness of figure with solidity of form, this species, if subjugated and domesticated, would assuredly make the best pony in the world. The senses of sight, hearing, and smell are delicate in the extreme. The slightest noise, the least motion, or the sight of any unfamiliar object, will at once rivet their attention and cause them to stop and listen with the greatest care. Any disagreeable odor in the air will as quickly attract their sense of smell.

"Instinct having taught these beautiful animals that in union consists their strength, they combine in a compact body when menaced by an attack either from man or beast; and, if overtaken by the foe, they unite for mutual defense, with their heads together in a close

circular band, presenting their heels to the enemy, and dealing out kicks in equal force and abundance. Beset on all sides, or partially crippled, they rear on their hind legs, fly at their adversary with jaws distended, and use both teeth and heels with the greatest freedom. While the quagga roams over the plains, the zebra seeks only the high mountainous regions. The beauty of its light, symmetrical form is enhanced by the narrow black bands with which the whole of the white-colored body is covered."

The zebra is supposed to be the tiger horse of the ancients. This is the more probable as it has a much farther range to the north than the quagga; for it approaches the regions of Africa once comprised within the Roman Empire. It seeks the wildest and most secluded spots, hence it is extremely difficult of approach. The herds frequent the steep hillsides for their grazing grounds. A sentinel is always posted on some adjacent cliff, ready to give the alarm in case of danger. No sooner is the signal of alarm given than away they all scamper, with pricked-up ears, and seek shelter in places where few people would venture to follow them.

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## CHAPTER LXI.

### BIRD LIFE IN AFRICA.

It would be interesting to view more of the mammals of Africa, did space permit. Certainly the field is a

wide one; for out of the three hundred species which are known to exist among the animals of Africa more than two hundred varieties are found exclusively in that country and in the island of Madagascar.

As in all tropical countries, the birds of Africa are distinguished, in the main, for the brilliancy of their coloring, rather than for the beauty of their song.

In our views of the Nile we have seen that various reed and water birds, as well as birds of prey, frequent its banks.

The African parrot is a bird worthy of mention. Though not as brilliant in coloring as the parrots of other tropical sections, yet it is considered the most valuable, perhaps, of all parrots, since it can easily be trained to speak fluently and very distinctly. Its coat of soft gray feathers and its scarlet-tipped tail make it by no means an unattractive bird, when compared with its more gorgeously dressed relatives from other lands.

The grosbeak of the wilds of Africa affords a wonderful example of nest building; for not one single pair, but hundreds, may be found living under the same roof. These nests resemble a thatch-roofed house with a projecting ridge, so that it is an impossibility for any reptile to approach the entrances, which are deftly hidden below.

One writer states, "Their industry seems almost equal to that of the bee. Throughout the day they appear to be busily employed in carrying a fine species of grass, which is the principal material they employ for the purpose of erecting this extraordinary work, as well as for additions and repairs.

"Though my short stay in the country was not sufficient to satisfy me, by ocular proof, that they added to their nest as they annually increased in numbers, still from the many trees which I have seen borne down by the weight, and others which I have observed with their boughs completely covered over, it would appear that this really was the case.

"When the tree which is the support of this aerial city is obliged to give way to the increase of weight, it is obvious they are no longer protected, and are under the necessity of rebuilding in other trees.

"One of these deserted nests I had the curiosity to break down, so as to inform myself of its internal structure, and I found it equally ingenious with that of the external. There are many entrances, each of which forms a separate street with nests on both sides, at about two inches from each other."

Livingstone gives the following description of a curious bird called the korwé: "We passed the nest of a korwé just ready for the female to enter. The orifice was plastered on both sides, but a space was left of a heart shape, and exactly the size of the bird's body.

"The hole in the tree was in every case found to be prolonged some distance upward above the opening, and thither the korwé always fled to escape being caught.

"In another nest we found that one white egg, much like that of a pigeon, was laid.

"The first time that I saw this nest I had gone to the forest for some timber. Standing by a tree, a native looked behind me and exclaimed, 'There is the nest of a korwé.' I saw a slit only, about half an inch wide



and three or four inches long, in a slight hollow of the tree.

“Thinking the word korwé denoted some small animal, I waited with interest to see what he would extract. He broke the clay which surrounded the slit, put his arm into the hole, and drew out a red-beaked hornbill. He informed me that when the female enters her nest the male plasters up the entrance, leaving only a narrow slit by which to feed his mate, and which exactly suits the form of his beak.

“The female makes a nest of her own feathers, lays her eggs, hatches them, and remains with the young till they are fully fledged. During all this, which is stated to be two or three months, the male continues to feed her and the young family. The prisoner generally becomes quite fat, and is esteemed a very dainty morsel by the natives, while the poor slave of a husband gets so lean that, on the sudden lowering of the temperature which sometimes happens after a fall of rain, he is benumbed, falls down, and dies.

“The bird comes forth when the young are fully fledged, at the period when the corn is ripe. Indeed, her appearance abroad with her young is one of the signs for knowing when it ought to be harvested.

“She is said sometimes to hatch two eggs, and when the young of these are full-fledged, another pair are just out of the eggshell. She then leaves the nest with the two elder, the orifice is again plastered up, and both male and female attend to the wants of the young which are left.”

The African weavers are remarkable for the eccen-

tricity of the shape and design of their nests. Most of these nests dangle at the end of twigs and sway in every breeze. Some of them are long, others short. Many have the entrance to the nest at one side, some have it at the bottom, others near the top.

Some of these nests are slung like hammocks; others are suspended from the end of a twig; others still are built in palms, and since these trees have no branches nor twigs the nests are fastened to the ends of the leaves.

Some nests are made of the finest and most delicate fibers, while others are of the coarsest kinds of straw. Many are of open texture, so that the eggs within can be easily seen; others are extremely strong and thick, so that one might well believe that they had been constructed by a professional thatcher.

One variety of weaver, though a pretty little bird, is no great favorite with the African farmers. It is very numerous in the cultivated regions, and does not scruple to help itself to the produce of the gardens. Hence the owners are obliged to keep a close watch if they would secure a fair share of the crops.

Another weaver, the yellow-capped, is remarkable for the extreme neatness and compactness of the nest it builds. The body of the nest is of seed-stems, so closely interwoven that it may be roughly handled, or even kicked about like a football, without being destroyed. Its interior is a lining which consists of layers of flat leaves, kept in place by their own elasticity, and thus affording a soft resting place for the eggs and nestlings.



On one occasion Livingstone, while collecting wood for the evening fire, found a bird's nest which consisted of live leaves sewn together with threads of the spider's web. Nothing could exceed the airiness of this pretty contrivance. The threads had been pushed through small punctures, and thickened to resemble a knot. Unfortunately he lost this nest, which was the second one he had seen resembling that of the tailor bird of India.

This same traveler states that while exploring the rapids of the Leeambye, in passing along under the overhanging trees of the banks, he often saw the pretty turtle doves sitting peacefully on their nests above the roaring torrent. In one instance an ibis had perched her home on the end of a stump. Her loud, harsh scream of "Wa-wa-wa," and the piping of the fish-hawk, were sounds which could never be forgotten by any one who had sailed on the rivers north of 20° south latitude.

As he stepped on shore, a species of plover followed him, flying overhead, and it was most persevering in its attempts to give fair warning to all the animals within hearing to flee from the approaching danger.

The alarm note, "tinc-tinc-tinc," of another variety of the same family has so clear a metallic ring that the bird is called "hammering iron." It has a sharp spur on its shoulder, much like that on the leg of a rooster, but scarcely half an inch in length.

## CHAPTER LXII.

## THE OSTRICH IN A WILD STATE.

The ostrich may be looked upon as the most peculiar bird of Africa. It is found in almost all sections, and is by far the largest of all living birds, though doubtless many extinct species were much larger. It is an immense bird, often two feet taller than the tallest man, and frequents the barren, sandy plains, such as are common in Africa.

The male is generally of a fine glossy black color, with long, loose, white, plumelike feathers in the wings and tail. These are the feathers for which the bird is hunted. They are largely used for decorating hats and bonnets. The female bird and the young are of a brownish-gray color.

The head and the neck of the ostrich are almost bare of feathers. Upon the body the feathers do not grow closely as they do upon other birds. The wind can thus blow through the feathers, cooling the body, while the covering is sufficient to protect the bird, like a shade, from the heat of the sun.

The ostrich has a keen sense of sight and hearing, and, as it is a swift runner, it is very hard to catch. It cannot fly, but it can use its wings like sails in running, and has been known to run at the rate of thirty miles an hour.

Its food is chiefly fruits, grain, leaves, tender twigs and shoots of plants, snails, and various kinds of insects. We often hear people speak of "the digestion of an

ostrich;" it is rather astonishing what this bird will take into its stomach to assist in grinding its food. Not only does it swallow instinctively vast quantities of small stones, but it has been known to swallow pieces of leather, bits of glass, iron, and other hard substances.

The ostrich has generally been considered rather a stupid bird. Indeed, the Arabs have a saying, "As stupid as an ostrich." This judgment of the bird doubtless arose from the habit it has of hiding its head in the sand or in a bush when hard pressed by its pursuers. No doubt it thinks that, because it cannot see, it cannot be seen by, the hunters it is trying to elude.

The ostrich is not easily caught; for, although its wings are small and weak, yet their flapping aids very materially in the flight from its pursuers. So rapid is this flight that the feet seem scarcely to touch the ground, while the length between the strides is frequently from twelve to fourteen feet. An ostrich at this rate might easily outstrip a locomotive running at good speed.

The strength of the legs is a great help to the bird in battling with its enemies, for it uses them as a means of defense. Many a panther or wild dog has had reason to wish it had kept at a safer distance from these formidable feet.

During its flight the ostrich frequently throws large stones backward with its feet, thus making the chase a more difficult one for its pursuers. Still, in spite of its great strength and rapid flight, the bird must often succumb to the hunter who is well versed in ways of making it a captive.

The ostrich makes its home in the African plains and wildernesses. Where the lion wanders in search of its prey, where the elephant, rhinoceros, and hippopotamus make the earth tremble under their heavy tread, where the long-necked giraffe plucks the leaves from the topmost branches of the acacia, where the herds of antelope bound gracefully over the ground, a troop of ostriches may not unfrequently be found enjoying the full liberty of the plain, as they wander, unsuspicuous of danger, over its vast expanse, where the monotony of the scenery is relieved only by a clump of palms, a patch of candelabra-shaped trees, or a gigantic and solitary baobab.

The scene is an interesting one, as some leisurely feed upon the sprouts of the acacias, the hard, dry leaves of the mimosas, or the prickly, cactuslike shrub of the desert of which the bird is extremely fond. Some flutter their wings to allow the air to circulate through the delicate plumage, which is looked upon as a prize by the covetous eyes of the hunter.

No other birds ever associate with them, nor do any other birds lead a life so isolated as theirs; so we might well consider their lives solitary, did not the zebra and the antelope seek their company, evidently relying on their keenness of vision, which enables them to discern danger even on the extreme edge of the horizon.

This vigilance can avail the ostrich troop but little when the Arab hunters encircle them with their fleetest steeds. Vainly each bird tries to escape. It is driven from one hunter to another; the circle of riders grows

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narrower and narrower, till the bird sinks to the ground from exhaustion and resigns itself to its fate.

Before the rainy season, however, it is not necessary to capture the ostrich through a protracted chase. When the heat is most intense, the bird is often found lying upon the sand with outstretched wings and open beak, suffering from the hot, sultry air, and burning sun. It is then an easy matter for a single horseman or a swift-footed Bushman to capture it after a short pursuit.

Just as the Esquimo of the north covers himself with the skin of the seal, and, by imitating its movements, is enabled to mingle with an unsuspicuous group of them, so the Bushman of South Africa resorts to similar strategy to outwit the ostrich.

He first forms a saddlelike cushion, which he covers with feathers, to resemble the bird. He then stuffs the head and neck of an ostrich and introduces a small rod as a support. In preparing for the chase, he whitens his black legs with any suitable substance which he can find, and places the saddle on his shoulders. He then takes the bottom part of the neck in his right hand, while he holds his bow and poisoned arrows in the left.

Behind this mask he mimics the ostrich in the smallest details; picks at the verdure, turns his head from side to side as if to keep a sharp lookout for danger, flutters his feathers, walks, trots, till he gets within bowshot, shoots his arrow, and, if the flock runs in its alarm, runs too.

Should some wary old bird suspect the trick, the Bushman must get out of its way as the bird tries to approach him; for on no account does he wish it to catch

the scent and thus break the spell. If an ostrich should get too near in its pursuit, the Bushman has but

to run to the windward or throw aside his saddle, to avoid a blow from the bird's wing, powerful enough to lay him prostrate.



OSTRICHES.

Andersson writes of this experience: "The moment the parent birds became aware of our intention, they set off at full speed, the female leading the way, the young following in her wake, and the male, though at

some little distance, bringing up the rear of the family party.

"It was very touching to observe the anxiety the old birds evinced for the safety of their progeny. Finding that we were quickly gaining upon them, the male at once slackened his pace, and diverged somewhat from his course; but, seeing that we were not to be diverted from our purpose, he again increased his speed, and with wings drooping, so as almost to touch the ground, he hovered round us, now in wide circles, and then decreasing the circumference, till he came almost within pistol shot, when he abruptly threw himself on the ground, and struggled desperately to regain his legs, as it appeared, like a bird that had been badly wounded.

"Having previously fired at him, I really thought he was disabled, and made quickly towards him. But this was only a ruse on his part; for on my nearer approach he slowly rose, and began to run in an opposite direction to that of the female, who by this time was considerably ahead with her charge. After an hour's severe chase, we secured nine of the brood, and, though it consisted of about double that number, we found it necessary to be contented with what we had."

The ostrich resorts to various stratagems to remove intruders from the vicinity of its crude nest, which is merely a cavity scooped out of the sand, usually about a yard in diameter, but only a few inches in depth. One writer happened to ride by the place where a hen ostrich was sitting upon her nest, when the bird sprang up and gave chase, in order to distract his attention from the nest of either young birds or eggs, he could

not ascertain which; for every time he turned his horse towards her, she retreated a few paces, but as soon as he rode on again she would pursue him.

The Creator has given the ostrich a wonderful instinct for providing its young with food. It was formerly supposed that the bird left her young to be hatched by the heat of the sand and sun; but it has been proved that she hatches them with the greatest care, and even reserves some of the eggs for food for the young birds when they first leave the shell. Thus, though a nest may hold from fifteen to twenty eggs, the mother bird sits upon not more than ten or a dozen; the rest are pushed to one side, in anticipation of the time when her hungry brood of little ones will look to her for food. This is a wonderful provision, when we consider how little the arid plains can offer for the support of the young birds.

Nature provides for their protection in still another way; for it gives them a covering suitable for the localities they frequent. This is neither one of down nor feathers; it is of the nature of a prickly stubble, and serves as a fine shield against the gravel and the coarse, stunted vegetation of the plains. Its color, too, renders it difficult to discern the chicks, even when crouching close at hand, so nearly do they resemble the color of the sand and gravel.

In Senegal the heat is so very intense that the ostrich sits upon her eggs only at night. Where the heat is less intense the eggs must be guarded night and day. The father bird usually sits on the nest at night, leaving the care of it to the mother bird during the day.

Every morning and evening the nest is left uncovered for a quarter of an hour, to allow the eggs to cool. The sight of the nests at this time has probably given rise to the erroneous idea that the ostrich leaves her eggs to hatch in the sun.

She has more sense than to believe in the sun's hatching her eggs; she is indeed quite aware of the fact that, if allowed to blaze down on them, even during the short time she is off the nest, it would injure them; and therefore on a hot morning she does not leave them without first placing on the top of each a good pinch of sand. When she has thus set her nest in order, she walks off, to fortify herself with a good meal for the duties of the day.

Now comes the white-necked crow's opportunity, for which, ever since the earliest dawn, he has been patiently watching; for an ostrich egg is to him the daintiest of all delicacies; but, nature not having bestowed on him a bill strong enough to break its hard shell, he is able only by means of an ingenious device to regale on the interior. So he watches till the parent's back is turned and she is a long distance from the nest; then he flies up into the air and drops a stone from a great height with so accurate an aim as to break an egg. He makes so good use of his quarter of an hour, that he, no less than the hen ostrich, has had an ample meal by the time the latter returns to the nest.

Though this crow is an inveterate egg stealer, he has a most respectable appearance, with his neat suit of black and his little white tie. The Boers have a legend to the effect that these birds are "the ravens"

which fed Elijah. They say that a little of the fat from the meat remained on the birds' necks, in commemoration of which their descendants have this one white spot on their otherwise black plumage.

Tortoise shells of immense size are often found on the plains of Cape Colony, broken in much the same manner as the ostrich eggs. This crow evidently is as fond of the inmate of the tortoise shell as he is of the contents of an ostrich egg.

The white crow is not the only enemy of an ostrich nest. The worst foes are the jackals. These plunder the nests, often rolling the eggs off with their paws to some considerable distance.

The Hottentots are very fond of ostrich eggs. If they discover a nest they will often remove one or two of the eggs from time to time. In her endeavors to raise a brood the mother bird has been known, like the domestic fowl, to lay from forty to fifty eggs in a season.

An ostrich egg is usually as large as two dozen hen's eggs. One might suppose a slice of one of these eggs would make a breakfast for a person of ordinary appetite, while a whole one would seem more than sufficient for a person of the most voracious appetite; yet Andersson saw two natives dispose of five of these eggs during an afternoon, together with a large portion of flour and fat.

Dr. Livingstone did not agree with Andersson, who considered that ostrich eggs made an excellent repast; to the great explorer they had a rank, disagreeable flavor, which only the keen appetite of the desert made acceptable to the palate.

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The shells of ostrich eggs are highly prized, for they are used for holding various kinds of liquids. Among the Bushmen there are scarcely any household utensils other than the ostrich eggshells. The shells are often covered with a light network, so that they may be slung across the saddle. Grass and wood are employed as substitutes for corks to these crude bottles.

In the Kalahari Desert it is no uncommon sight to see the women resorting to some hidden supply of water, with twenty or thirty of their water vessels in a bag or net slung over their backs. These vessels consist of ostrich eggshells, with a hole in the end of each large enough to admit one's finger. The process of filling them we have already learned in the description of the Kalahari Desert.

The Bushmen never touch the eggs, nor leave marks of human feet near them, when they find a nest. They go against the wind to the spot, and with a long stick remove some of them occasionally, and by preventing any suspicion keep the hen laying for months, as we do with fowls.

When the Hottentots, discover a quantity of eggs, they remove their lower garment, the legs of which they tie up like bags, to serve as receptacles in which to carry home their bulky and queer-looking load. One can imagine the grotesque appearance a Hottentot would present with a pair of these inflated bags astride his shoulders, while he wends his way homeward to the kraal.

## CHAPTER LXIII.

## OSTRICH FARMING AT CAPE COLONY.

In the early settlement of Cape Colony, ostriches were found in great numbers. No later than fifty years ago flocks could be seen in almost any section of it. The salty nature of the soil, the sweet grass, and the dry atmosphere of the karroo plains are very favorable to the health of these birds.

As the hunters became more and more eager to secure the feathers, which were the real plunder of the chase, they wantonly hunted and killed great numbers of ostriches. In consequence the birds became very scarce, and the hunters had to seek their sport farther and farther to the north.

The settlers soon turned their attention to the rearing of ostriches as they would turkeys or hens, and ostrich farms became a common feature of Cape Colony. Ostrich farming is not only an interesting industry for the Boers, but it is a most lucrative business. The feathers, too, from these farms surpass in quality and value those brought from the wilds of the interior.

As a pound of ostrich plumes is worth about three hundred dollars, the owner of an ostrich farm finds it a profitable business to own as many full-grown birds as possible; for each will yield a quarter of a pound of feathers yearly. A tiny chick a week old is valued at the sum of fifty dollars, while a full-grown bird will command as high a price as two hundred and fifty.

The ugly scenery of Cape Colony, its eccentric plants,

queer beasts, and general look of incompleteness, according to one writer, have called forth the remark from some jocular American that "South Africa was finished off in a hurry late on Saturday night, with a few diamonds thrown in to compensate."

The owner of an ostrich farm, however, finds much in compensation. The author of "Home Life on an Ostrich Farm" thus describes a farm of some twelve hundred acres: "We are in that part of the Karroo which is called the Zwart Ruggens, or 'black rugged country,' so named from the appearance it presents when, during the frequent long droughts, the bush loses all its verdure, and becomes outwardly so black and dry-looking that no one unacquainted with this most curious kind of vegetation would suppose it capable of containing the smallest amount of nutriment for ostriches, sheep, or goats.

"But if you break one of these apparently dried-up sticks, you find it all green and succulent inside, full of a very nourishing saline juice; and thus, even in long droughts, which sometimes last more than a year, this country is able to support stock in a most marvelous manner, of which, judging by outward appearance, it certainly does not seem capable. It seems strange that in this land of dryness the plants are so full of moisture; one wonders whence it can possibly have come.

"The little *karroo* plant, from which the district takes its name, is one of the best kinds of bush for ostriches, as well as for sheep and goats. It grows in little compact round tufts not more than seven or eight inches from the ground, and though so valuable to farmers it

is but unpretending in appearance, with tiny narrow leaves, and a little, round, bright yellow flower, exactly resembling the center of an English daisy after its last petal has been pulled.

“The *fei-bosch* is another of our commonest and useful plants. Its pinkish lilac flower is very like that of the portulacca, and its little flat succulent leaves look like miniature prickly pear leaves without the prickles; hence its name, from *Turk-fei*, Turkish fig. When flowering in large masses, and seen at a little distance, the *fei-bosch* might almost be taken for heather.

“The *brack-bosch*, which completes our trio of very best kinds of ostrich bush, is a taller and more graceful plant than either of the preceding, with bluish green leaves, and blossoms consisting of a spike of little greenish tufts; but there are an endless variety of other plants, among which there is hardly one that is not good nourishing food for the birds.

“All are alike succulent and full of salt, giving out a crisp, crackling sound as you walk over them. All have the same strange way of growing, each plant a little patch by itself, just as the tufts of wool grow on the Hottentots’ heads; and the flowers of nearly all are of the portulacca type, some large, some small, some growing singly, others in clusters. They are of different colors,—white, yellow, orange, red, pink, lilac, etc. They are very delicate and fragile flowers; and, pretty as they are, it is useless to attempt carrying them home, for they close up and fade as soon as they are gathered.

“The *spekboom*, which is a good-sized shrub, some-

times attaining the height of fifteen or twenty feet, grows plentifully a little way up the mountains; and in very protracted droughts, when the karroo and other bush of the plains begin at last to fail, it is our great resource for the ostriches, which then ascend for the purpose of feeding upon it; and though they do not care for it as they do for their usual kinds of food, it is good and nourishing for them. It has a large, soft stem, very thick, round, succulent leaves, and its clusters of star-shaped, waxlike flowers are white, sometimes slightly tinged with pink.

“Thorny plants abound, especially on the mountains, where indeed almost every bush which is not soft and succulent is armed with strong, sharp, often cruelly hooked spikes. On foot you are perpetually assailed by the great strong hooks of the wild asparagus, a troublesome enemy, whose long straggling branches trailing over the ground are most destructive to the skirts of dresses; while boots have deadly foes, not only in the shape of rough ground and hard, sharp-pointed stones, but also in that of numerous prickly and scratchy kinds of small bush.

“Among our troublesome plants, one of the worst and most plentiful is the prickly pear. It spreads with astonishing rapidity, and is so tenacious of life that a leaf, or even a small portion of a leaf, if thrown on the ground, strikes out roots almost immediately, and becomes the parent of a fast-growing plant.

“Sometimes ostriches help themselves to prickly pears, acquire a morbid taste for them, and go on indulging in them, reckless of the long stiff spikes on the leaves,

with which their poor heads and necks soon become so covered as to look like pincushions stuck full of pins, and of the still more cruel, almost invisible fruit thorns which at last line the interior of their throats, besides so injuring their eyes that they become perfectly blind, and are unable to feed themselves."

Speaking of the prickly pear still further, the author acknowledges that it is not without its good qualities: "Its juicy fruit, though rather deficient in flavor, is delightfully cool and refreshing in the dry heat of summer, and a kind of treacle, by no means to be despised, is made from it.

"Great caution is needed in peeling the prickly pear, the proper way being to impale the fruit on a fork or stick while you cut it open and remove the skin. On no account must the latter be touched with the hands, or direful consequences will ensue.

"To the inexperienced eye the prickly pear looks innocent enough, with its smooth, shiny skin, suggestive only of a juicy interior, and telling no tales of lurking mischief; yet each of these soft-looking tufts, with which at regular intervals it is dotted, is a quiver filled with terrible, tiny, hairlike thorns, or rather stings, and woe betide the fingers of the unwary, who with no kind friend at hand to warn him, plucks the treacherous fruit.

"In dry weather at the Cape these spiteful little stings do not even wait for the newly arrived victim; but fly about, light as thistle down, ready to settle on any one who has not learned by experience to give the prickly-pear bushes a wide berth.

“The leaves of the prickly pear are good for ostriches and cattle, though the work of burning off the thorns and cutting the leaves in pieces is so tedious that it is only resorted to when other food becomes scarce. One kind, the ‘bald-leaf,’ has no thorns. It is comparatively rare, and farmers plant and cultivate it as carefully as they exterminate its troublesome relative.”

Another queer plant this author describes as candle-bush, a stunted, thorny plant, which, if lighted at one end, will burn steadily just like a wax candle, and can be used as a torch for burning off the thorns of the prickly pear.

Speaking of the dry season, this writer says: “The long droughts are certainly very trying; indeed, they could not possibly be endured by any country less wonderfully fertile than South Africa, where it is calculated that three good days’ rain in the year, could we but have this regularly, would be sufficient to meet all the needs of the land. But often for more than a year there will be no rain worth mentioning.

“The dams, or large artificial reservoirs, of which each farm usually possesses several, gradually become dry, and the land daily loses more of its verdure, till at last all is one dull, ugly brown, and the whole plain lies parched and burnt up under a sky from which every atom of moisture seems to have departed.

“The stock, with pathetic tameness of thirst, come from all parts of the farm to congregate close round the house, the inquiring ostriches tapping with their bills on the windows, as they look in at you, and the cattle lowing in piteous appeal for water. Then the hot

winds sweep across the country, making everybody tired, languid, headachy, and cross. Even our pets were sulky on a hot, windy day; and as for the ostriches, they were deplorable-looking objects indeed, as they stood gasping for breath, with pendant wings, open bills, and inflated throats, the pictures of imbecile misery."

When the weary drought is over, and the long-wished-for rain begins to fall, every one's heart is gladdened by the sound of abundance of rain, and the voice of many waters.

"It means everything to the farmer: the long drought over at last, the dams full, the parched country revived, the poor thin cattle no longer in danger of starvation, healthier ostriches, a better quality of feathers, a near prospect of nests, and, in fact, the removal of a load of cares and anxieties.

"How early we are all astir on the morning after a big rain! and with what eager excitement we look out, in the first gleam of daylight, for that most welcome sight, the newly filled dam! Everywhere the water is standing in immense pools and ponds. A troop of ostriches come down to drink. They are no doubt delighted to find such an abundant supply of water, after the somewhat scanty allowance which has been portioned out to them of late; and they stand greedily scooping up large quantities with their broad bills, then assuming comical attitudes as they stretch out their distended necks to allow the fluid to run down. In the distance, about a dozen other ostriches are spreading their white wings and waltzing along mag-

nificantly—a pretty way of expressing their satisfaction at this new and delightful change in circumstances."

## CHAPTER LXIV.

### VIEWS OF AN OSTRICH FARM.

It would be delightful to quote without limit from this intensely interesting book, but there is not time to linger over its pages longer than to glean a few items:—

"There are not many young animals prettier than an ostrich chick during the first few weeks of life. It has such a sweet, innocent baby face, such large eyes, and such a plump, round little body. All its movements are comical, and there is an air of conceit and independence about the tiny creature which is most amusing.

"Instead of feathers it has a little rough coat which seems all made up of narrow strips of material, of as many different shades of brown and gray as there are in a tailor's pattern book, mixed with shreds of black, while the head and neck are apparently covered with the softest plush, striped and colored just like a tiger's skin on a small scale. On the whole the little fellow, on his first appearance in the world, is not unlike a hedgehog on two legs, with a long neck.

"One would like these delightful little creatures to remain babies much longer than they do; but they grow quickly, and with their growth they soon lose all their

prettiness and roundness; their bodies become angular and ill-proportioned, a crop of coarse, wiry feathers sprouts from the parti-colored strips which formed their baby clothes, and they enter on an ugly stage, in which they remain for two or three years.

"A young ostrich's rough, bristly, untidy-looking 'chicken feathers' are plucked for the first time when he is nine months old. They are stiff and narrow, with very pointed tips, and their ugly appearance gives no promise of future beauty. They do not look as if they could be used for anything but making feather brooms. In the second year they are rather more like what ostrich feathers ought to be, though still very narrow and pointed, and not until their wearer is plucked for the third time have they attained their full width and softness.

"At five years of age the bird has attained maturity; the plumage of the male is then of a beautiful glossy black, and that of the female of a soft gray, both having white wings and tails. In each wing there are twenty-four long white feathers, which when the wing is spread out hang gracefully round the bird like a lovely deep fringe.

"On a large farm, when plucking is contemplated, it is anything but an easy matter to collect the birds; the gathering together of ours was generally a work of three days. Men have to be sent out in all directions to drive the birds up, by twos and threes, from the far-off spots to which they have wandered. Little troops are gradually brought together, and collected, first in a large inclosure, then in a small one, the plucking kraal, in

which they are crowded together so closely that the most savage bird has no room to make himself disagreeable.

“Besides the gate through which the ostriches are driven into the kraal, there is an outlet at the opposite end, through the ‘plucking-box.’ It is a very solid wooden box, in which, though there is just room for an ostrich to stand, he cannot possibly turn round; nor can he kick, the sides of the box being too high. At each end there is a stout door, one opening inside, the other outside the kraal. Each bird in succession is dragged up to the first door, and, after more or less of a scuffle, is pushed in, and the door slammed behind him.

“Then the two operators, standing one on each side of the box, have him completely in their power, and with a few rapid snips of their shears his splendid wings are soon denuded of their long white plumes.

“These, to prevent their tips from being spoilt, are always cut before the quills are ripe. The stumps of the latter are allowed to remain some two or three months longer, until they are so ripe that they can be pulled — generally by the teeth of the Kaffirs — without hurting the bird. It is necessary to pull them, the feathers, which by their weight would have caused the stumps to fall out naturally at the right time, being gone.”

In describing the condition of the plumes, this author writes: “Sometimes the white feathers would be dirty, — for there is nothing an ostrich likes better than sitting down to cool himself in the muddiest dam he can find; then it was necessary to wash them, dip them into strong raw starch, and shake them in the hot sun,

beating two bundles of them together till quite dry. The starch makes them look very pretty and fluffy. Ostrich feathers are quite tabooed by ladies in South Africa; they are too common, every Kaffir or Hottentot wearing one in his dirty, tattered hat.

"If an ostrich feather is held upright, its beautiful form, graceful as the frondlike branch of the cocoanut palm, which it somewhat resembles, is at once seen to be perfectly even and equal on both sides, its stem dividing it exactly in the center, whereas the stems of other feathers are all more or less on one side."

Ostriches begin to make their nests soon after a good rain. The father bird becomes very savage, as if to warn all intruders away from the vicinity of the nest. His note of defiant warning can be heard then in every direction. He inflates his neck in a cobralike fashion, and gives utterance to three deep roars; the first two short, the third very prolonged. Lion hunters all agree in asserting that the roar of the king of beasts and that of the most foolish of birds are identical in sound; with this difference only, that the latter, when near, resembles the former when far away.

"When an ostrich challenges, he sits down; and, flapping each broad wing alternately, inflates his neck, and throws his head back, rolling it from side to side, and with each roll striking the back of his head against his bony body with so sharp and resounding a blow that a severe headache seems likely to be the result."

When the birds become aggressive, one dares not walk about the camp unless armed with a weapon called a "tackey." This is merely a long, stout branch of the

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mimosa tree, from which all the thorns, except upon one end, have been stripped. It does not seem to be much of a protection against so ferocious and formidable a foe, one stroke of whose powerful leg can easily kill a man, and whose kick, as violent as that of a horse, is much more dangerous, owing to the terrible claw with which nature has armed the foot.

Those versed in the use of the tackey allow the enraged assailant to approach almost unpleasantly near, and then thrust the weapon of defense boldly in his face just as he is about to strike. The thorns are so annoying that he is obliged to close his eyes, and can merely run forward in a blind, helpless fashion. This gives the person bearing the tackey a chance to spring to one side and to proceed upon his way for some little distance, before the bewildered bird is ready for another attack, when he is again met by the same simple but effective instrument.

Some ludicrous stories are related of the encounters newcomers at the Cape have had with ostriches. A sturdy newcomer, six feet in height, on starting for an early morning walk, was cautioned against going into a certain camp where the ostriches were dangerous. He laughed at his friends' advice, told them he was not afraid of a dicky-bird, and disdaining the proffered tackey started off straightway in the forbidden direction. He did not return to dinner; a search was made for him, and eventually he was found perched up on a high ironstone boulder, just out of reach of a large ostrich, which was doing sentry, walking up and down, and keeping a vicious eye on him.

He had sat there for hours, nearly roasted alive, and there he would have had to sit till sundown, but for the timely appearance of his friends.

Another story is related of a gentleman whose theory was that any creature, however savage, could be quelled by the human eye. One day he tried to quell one of his own ostriches, with the result that he was presently found in a very pitiable predicament, lying flat on the ground, the subject of his experiment jumping up and down on him, and occasionally varying the treatment by sitting on him.

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## CHAPTER LXV.

### VIEWS IN EQUATORIAL AFRICA.

The explorer, Paul Du Chaillu, gives some interesting views of sections of Equatorial Africa, which from the western coast, as far as he had been, are covered with an almost impenetrable jungle, which begins where the sea ceases to beat with its continual waves; how much farther this woody belt extends, only further explorations will be able to show. From the farthest point it extends eastward as far as the eye can reach; near the banks of a large river, however, running from a northeast direction towards the southwest, prairie lands are to be seen.

“Now and then prairies looking like islands, resembling so many gems, are found in the midst of this dark

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sea of everlasting foliage; and how gratefully my eyes met them no one can conceive, unless he has lived in such a solitude. Here and there prairies are seen from the seashore, but they do not extend far inland, and are merely sandy patches left by the sea in the progress of time.

“In this great woody wilderness man is scattered and divided into a great number of tribes. The forest, thinly inhabited by man, was still more scantily inhabited by beasts. There were no beasts of burden, neither horse, camel, donkey, nor cattle. Men and women were the only carriers of burdens. Beasts of burden could not live, for the country was not well adapted to them. The only truly domesticated animals were goats and fowls, the goats increasing in number as I advanced into the interior, and the fowls decreasing.

“I was struck by the absence of those species of animals always found in great number in almost every other part of Africa. Neither lions, rhinoceroses, zebras, giraffes, nor ostriches were found; and the great variety of elands and gazelles, although found almost everywhere else in Africa, were not to be seen there.

“Travelers in my locality would never dream that such vast herds of game could be found on the same continent, as those described by different travelers. Hence, large carnivorous animals are scarce, leopards and two or three species of hyenas and jackals only being found. Little nocturnal animals are more common, but they are very difficult to get at.

“Reptiles abound in the forest. There are a great many species of snakes, the greater part of which are

very poisonous. Some are ground snakes, others spend part of their lives upon trees, while some are water snakes. A very dangerous snake is the black variety of the cobra. This snake is much dreaded; for, when surprised or attacked, it rises up as if ready to spring upon you.

"There is also a large water snake found often in the beautiful clear water of the streams of the interior. I have often seen this snake coiled up and resting on the branches of trees under water.

"Lizards are also abundant in some districts, and it is interesting to watch how they prey on the insect world. Among them I noticed a night species, that lives in the houses, and that is the great enemy of cockroaches. They are continually moving from one place to another during the night in search of their prey. During the day, they remain perfectly still, and hide themselves between the bark of trees forming the walls of the huts.

"The country is also very rich in spiders; they are of wonderful diversity of form. Some of them are so large and their webs so strong that birds are said to be caught in them. There are house spiders, tree spiders, and ground spiders. The spiders are exceedingly useful, and rid the country of many unpleasant flies. How many times I have seen them overpower prey which seemed much stronger than themselves.

"The web spiders seemed to have but a few enemies, but the house and wall spiders, which make no web, have most inveterate enemies in the shape of two or three kinds of wasps.

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“ During the day I have seen these wasps travel along the walls with a rapidity that astonished me, and, finally, when coming to a spider, immediately pounce upon the unfortunate insect and overpower it by the quickness of the movements of their legs, and succeed in cutting, one after the other, the legs of the spider close to the body, and then suck it, or fly away with it to devour it somewhere else.

“ I consider some species of ants, snakes, lizards, and spiders as most useful; for they destroy a great quantity of insects and other vermin. The great moisture of the country I have visited, with its immense jungle, is well adapted for the insect world, and would prove a very rich field for a naturalist and collector.

“ I was surprised to see how closely several of them mimicked or imitated other objects. Some looked exactly like the leaves on which they most generally remain; others are exactly of the color of the bark of trees on which they crawl; while others looked exactly like dead leaves, and one or two like pieces of dead branches of trees. Dragon flies of beautiful color were met near the pools.

“ Bats are very abundant, and I had succeeded in making a fine collection of them. They sometimes came by hundreds and spent the whole of the night flying round a tree which bore fruits they liked, and the noise made by their wings sounded strangely amid the stillness which surrounded them.

“ Squirrels are rather numerous, and there are a good number of species. Birds of prey and snakes are their great enemies.

“There are eight species of monkeys, but they are not all found in every district. They live in troops, but when old they live generally by themselves or in pairs.

“Of all the mammalian animals inhabiting the forest the monkey tribe is the most numerous; but the poor monkey is surrounded by enemies, the greatest being man, who sets traps everywhere to catch him. Then he is continually hunted by the negroes with guns or arrows. The guanonien, an eagle, is also his inveterate enemy.

“The guanonien is a most formidable eagle, and, in spite of all my endeavors, I have been unable to kill one. Several times I have been startled in the forest by a sudden cry of anguish from a monkey which had been seized by this ‘leopard of the air,’ as the natives often call it, and then have seen the bird with its prey disappear out of sight.

“One day, hunting through the thick jungle, I came to a spot covered with more than one hundred skulls of monkeys of different sizes. Some of these skulls must have been those of formidable animals, and these now and then succeeded, it appears, in giving such bites to this eagle that they disabled him.

“For a while I thought myself in the Valley of Golgotha. Then I saw at the top of a gigantic tree, at the foot of which were the skulls, the nest of the bird, but the young had flown away. I was told by the natives that the guanonien comes and lays in the same nest year after year. When an adult specimen has been secured, it may be found to rival in size the condor of America.

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“By the side of wild men, roamed the apes, the chimpanzee forming several varieties. Then came the largest of all, the gorilla, which might be truly called the king of the forest. They all roamed in this great jungle, which seems so well adapted to be their homes; for they live on the nuts, berries, and fruits of the forest, found in more or less numbers throughout the year; but they eat such a quantity of food that they are obliged to roam from place to place, and are found periodically in the same district.

“The elephant has become scarce, and recedes farther and farther every year into the fastnesses of the interior.

“Mile after mile was traveled over without hearing the sound of a bird, the chatter of a monkey, or the foot-step of a gazelle, the humming of insects, the falling of a leaf; only the gentle murmur of some hidden stream came upon our ears to break the deadness of this awing silence, and disturb the grandest solitude man can ever behold—a solitude which often chilled me, but which was well adapted for the study of nature.”

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## CHAPTER LXVI.

### CROCODILES.

Long before the advent of man upon the globe, there was a period when huge crocodiles swarmed in the rivers of the temperate zones. The diminished heat of

the temperate regions of the earth, as we know them to-day, has driven these scourges of all that live in the waters they frequent into the great rivers and lagoons of the torrid zone.

The crocodile is characterized by the depressed head, so indicative of a low order of intelligence; the vast jaw, which, armed with formidable rows of conical teeth, seems designed to snatch and to swallow; and the elongated, mud-colored body, with its long lizard-like tail, resting on short legs. These all stamp him with a peculiar ugliness and frightfulness.

The female crocodile generally lays her eggs, like the sea turtle, in a hole in the sand, and leaves them to be hatched by the potent rays of a tropical sun. These eggs are about the size of those of a goose, and are covered with a limy shell.

The young of the crocodile have numerous enemies. Many an egg is destroyed by the smaller flesh-eating animals, or by birds, before it can be hatched in the hot sand. Even if the eggs hatch, no sooner do the young creep out of the broken shells and instinctively move towards the water, than the ichneumon, a species of weasel, and the long-legged heron make haste to swallow them; hence their span of life is not usually a long one.

Should they escape these enemies and take refuge in the water, they become the prey of the different sharp-toothed fishes. Even the full-grown crocodile, in spite of its bony covering, is not exempt from attack. Like many other of the lower animals, when surprised, it endeavors to escape by feigning death. Crocodiles are very numerous in the river Shiré. On one occasion

some travelers on board a small vessel counted sixty-seven of them basking in the sun on the same bank.

Women, while drawing water, are sometimes seized by these creatures, and the protection of a fence is required to keep the crocodiles from the river's brink. It is the scourge of the lakes and rivers wherever it is found. Like the eagle among birds, or the lion among beasts, so is the crocodile among reptiles.

Its main food consists of fishes, various aquatic birds, and such animals as it can seize along the borders of the water. It is not only a powerful foe but a cunning one as well.

Like the various carnivorous animals, it can, though a reptile, fast in its aquatic home for weeks and even months without apparent inconvenience. When opportunity offers, it becomes a veritable glutton, and is then indolent and torpid at the close of its meal.

It is when excited by hunger that the crocodile displays its great force and activity. Wherever a river enters a lake, or where a lake empties its waters into some larger body, there the ugly reptile may be found lurking, on the watch for fish. As these pass in the rapidly moving waters, it darts upon them with astonishing velocity.

Again, it conceals itself near where animals have their favorite drinking spot, and rushes out upon the unsuspecting creatures as they approach the water's edge. In the same way it seizes upon the various water birds; often it swims quietly and warily under them and pulls them down by their legs.

Sometimes the crocodile is carried inland by floods,

but, as a general rule, it does not advance far on shore in search of prey. On land it is not difficult to escape from its attack; for its legs are poorly fitted for running and the construction of its neck is such as to prevent its turning easily from one side to the other when in pursuit of a victim.

Winter is the most favorable time for catching the crocodile; then it may be found on the sand banks basking in the warm rays of the sun. Spring, too, is a favorable season, for the mother reptile keeps watch over the sand hills where she has deposited her eggs; and the native who is so successful as to discover this place digs a hole in the sand to the leeward and throws up the earth on the side from which he expects the crocodile to approach. He then conceals himself and awaits its coming. If the reptile has failed to observe him, it soon comes to the accustomed spot and falls asleep. The native huntsman then throws his harpoon with all his might into the creature; for, to make the stroke successful, the iron of the harpoon must penetrate to the depth of four inches. As soon as it is wounded, it rushes into the water. Then the huntsman retreats to the canoe, which a companion has brought to his aid.

When a crocodile is struck by the harpoon, it lashes violently with its tail and tries to bite the rope in two. To prevent such a thing happening, the rope is not woven, but consists of about thirty separate fine lines bound together at intervals of every two feet. These separate lines often get between the creature's teeth or become tangled about them.

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As it moves through the water, a piece of wood attached by a long cord to the harpoon swims upon the surface ; this serves to indicate the direction the creature is taking. By pulling upon the rope the natives drag the crocodile to the surface and soon pierce it by a second spear. It frequently happens, however, that the harpoon is pulled out of its body, and thus the prize escapes.

In some of the rivers of Africa the natives are very bold and skillful in attacking the crocodile in the water. Their mode is to arm themselves with a short dagger, dive beneath the reptile, and plunge the weapon into its body. Often the combat becomes a very fierce one, and the only chance of escape on the part of the native is to force his dagger, or, if by any misfortune he has lost this, to thrust his thumbs into the reptile's eyes with all his strength, thus causing great pain and loss of sight.

Among the ancient Egyptians the crocodile was an object of worship, and thus held sacred. In consequence of this idolatry, it became very bold and troublesome. Had it not been for its natural enemy, the ichneumon, this reptile would have increased to an alarming extent in the Nile countries.

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## CHAPTER LXVII.

### ANTS OF AFRICA.

Probably no insect is of more interest in Africa than the termite, or white ant. It is found in vast numbers and may well be dreaded. The amount of damage

an army of termites can do is quite appalling ; for, in their line of travel, they destroy everything in their pathway.

Du Chaillu devoted the greater part of his leisure hours to studying the habits of the many species of these white ants, the nests of which are very conspicuous on the prairies. He describes them as having wonderful diversity, not only in the form of their bodies and heads, but in their architectural tastes. One species builds a mushroom-shaped structure. Their singular hives are shaped like gigantic mushrooms scattered by tens of thousands over the prairies.

Du Chaillu believed these white ants of the prairies to be of a very different species from those which live in subterranean nests, and make their appearance through the floor of one's hut, removing all substances made of cotton or wood that they find in their pathways. They seemingly have a very keen sense of smell. They are very fond of eating wood, and are often found in dead trees.

One may go to bed with no fear from these little creatures, since no sign of them has been seen, and awake in the morning to find little covered passages overspreading the floor, chests of clothing, and the various stores, and to discover with dismay that the contents of the chests and of the store closets have been entirely destroyed by the thousands of busy ants, that, like an invading host, are engaged in working destruction with their sharp jaw-blades. Wood and cotton are the only materials they destroy ; wool and silk they invariably spare.

Another species of ant which this author describes lives in the forest and is a very near neighbor of the other. He called it the tree ant from its habit of building hives or nests in trees.

Many of the nests of the termites are conical or turret-shaped, and are often twelve, sometimes twenty feet high ; they are built in groups like villages. While there is a variety of termites most destructive in their line of march across a country, yet, in some ways, they are very useful ; for they destroy every kind of decaying matter, whether animal or vegetable. They will, when pressed for food, eat even grass. Some writers have described the snapping of the mandibles of such a vast multitude of termites as resembling the sound of a gentle breeze among trees.

These termites have been known to attack the wood-work of houses ; they can soon destroy even the stoutest timbers, gnawing them till they become mere shells. Some extraordinary stories have been told of their attacking and devouring large animals. Very probably, however, they do this only when the animal is very feeble from illness or old age.

Wherever food is to be found, they come in great hosts, and it is very hard to exterminate them ; for, as fast as one multitude is disposed of, other multitudes press on from the rear ranks. They gather into their nests great stores of corn. The natives of Africa are very fond of it and often help themselves from these stores.

The natives often use these insects as food, and consider them very delicate and delicious eating when roasted. Sometimes they are pounded by the natives

into a kind of jam, which the boys and girls of Africa like as well as American children do raspberry or currant jam.

It is no uncommon thing for hunters out searching for game, or even wild animals looking for prey, to mount the hills made by the termites to get a view of the surrounding country; for, so hard do the plastered tops of the unique dwellings of these most curious of masons become, when dry, that they easily sustain the weight of a human being, and even of a beast of the plain.

While the devastation which an army of termites leaves behind in its march is appalling, yet an army of locusts is still more destructive; for it often leaves the country in its line of march as bare as if no vegetation had ever grown there. Africa suffers in no small degree from the inroads of this enemy, small in size, but great in numbers.

Livingstone, in his travels in South Africa, speaks of the hills erected by the termites. These gigantic mounds, as he terms them, are utilized by the natives, who choose their sides as choice spots for rearing early maize, tobacco, or anything which requires a rich soil.

In the parts through which he passed these mounds were generally covered by masses of wild date trees. The fruit was small, for no tree was allowed to stand long. Food was abundant and the natives did not care to spend their time preserving wild fruit trees. So, when a date palm grew too tall for its top to be reached, as soon as the fruit was ripe it was cut down, in order that there should be no occasion to climb it; for it was considered too much trouble to do so.

Speaking of the swarming from a nest of these ants, he describes them as rushing out of a hole in a perfect stream, and, after flying one or two hundred yards, descending to the ground. If they lighted upon a soil suitable for founding a colony, they immediately bent up their tails, unhooked their wings, and, leaving them on the surface of the ground, quickly began their mining operations.

These wings seem formed only to help the insect in its short flight to a new abode and are then cast aside.

Occasionally this swarming occurs in a house, and, to prevent every corner from being filled with the insects, a fire is built at the orifice of the nest. But they do not hesitate to pass through the fire. While swarming they appear like snowflakes floating about in the air, and it is not uncommon to find dogs, cats, hawks, and almost every kind of bird busily devouring them.

The natives take advantage of the swarming season and collect the ants for food. They are then about half an inch long, about as large round as a goose quill, and very plump. When roasted, they are good eating and resemble grains of boiled rice. The general mode of catching them is to dig into the hill, and as the builders come forth to repair the damage, to sweep them quickly into some cooking utensil.

A singular animal of South Africa is the earth hog. Its food consists wholly of the white ants, whose dome-like structures are found in great numbers in the vicinity of the Orange River, and in other thinly settled localities.

This animal burrows a short distance below the sur-

face of the ground. During the daytime it is seldom seen; at dusk, however, it ventures forth, intent on creeping up to the ant-hills which shelter its prey. By scratching a hole on the side of one with its fore-feet the little community is disturbed; and as the ants in their confusion run about in various directions, they are easily drawn into the earth hog's mouth by its long slender tongue.

Though apparently defenseless,—for it has no tusks nor efficient teeth,—no animal is safer in its concealment, for it is very rarely seen. When pursued, it burrows a retreat for itself with astonishing speed.

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## CHAPTER LXVIII.

### THE PEOPLE OF AFRICA.

Although Africa may well be considered the home of the black man, yet we must not fail, in considering the people of the dark continent, to refer to the annals of history for many interesting facts about them.

From the days of the remotest antiquity, two Asiatic branches of the human family extended their area southwest into Africa. The emigrants called Hamites, peopled Egypt, Libya, and Numidia. They furnished us with the earliest annals of history; for they invented the hieroglyphics and the arts for which Egypt was celebrated. Their successors, the Semites, who followed them from Asia, spread all over the northern and eastern sections of the continent. Followers of Mohammed,

they carried his faith with them in their journeying and laid the foundation of the Mohammedan religion as we find it in the sections along the Mediterranean Sea. As Arab traders they have extended their journeys into the very heart of the continent to carry on the traffic of ivory and slaves.

The black race is native to Africa. It is divided into three great branches, each of which is divided into numerous tribes and again subdivided into kingdoms.

The *negroes*, or true blacks, are native to Central Africa. They inhabit the great coasts of Guinea and Senegambia in West Africa, and also the great tract of country which extends eastward through the Soudan, the "Land of the Blacks," to the valley of the Nile. Most of the freed men of the United States are descendants of the negroes of the Guinea coast, who, having been captured as slaves, were shipped across the sea to America and sold into bondage.

The *negroid* branch of the African race is doubtless of mixed ancestry, descended from the true negro and from the white race inhabiting North and East Africa. It is a well-marked branch, showing plainly the mixed ancestry of the people. The various tribes occupy Nubia, the high grassy plains of East Central Africa, which include the lake region and the basin of the Upper Nile, and the vast territory which contains the watersheds of the mighty Congo and Zambesi Rivers. The various tribes known as Kaffirs, Zulus, Bechuanas, and the many tribes of Bantu in the south of Africa all belong to the *negroid* branch.

A third branch, the *negrillos*, or dwarfs, are a people of small stature. Some of the tribes are found in the thick forests that lie along the northern side of the Congo River. In South Africa we find them represented by the Bushmen, one of the lowest grades of the human family, occupying the land bordering on the Kalahari Desert. The Hottentots are somewhat larger in stature and of a higher order of intelligence. They very likely are of a mixed ancestry, having descended from a mingling of the Bushmen and some of the tribes of the *negroid* branch in this region.

Notwithstanding that there are but three branches of the native people of Africa, yet owing to their division into numberless tribes, each bearing its own special name, almost as much difficulty is found in tracing their origin as in trying to discover the source of any of the great rivers from their various tributaries which form a network over the country.

We shall later in our reading obtain some knowledge of the Moorish pirates who infested the Mediterranean Sea and who had their headquarters at Algiers.

It is due to the French nation that since 1830 the magnificent port of Algiers has been open to all the fleets of the world, and the coast of the Mediterranean, freed from pirates, has been accessible to all the navies of the world, should they choose to occupy it.

The attention of the French is now turned toward ridding the great sea of sand which extends between Northern Africa and Central Soudan from the fierce Tuaregs that still occupy it. They are a race as wild and barbarous—yes, as lawless—as were ever the terrible



pirates of the Mediterranean Sea. They may be termed the brigands of the desert.

They roam over the vast region between Morocco, Algeria, Tunis, and Tripoli in the north, and Lake Tchad in the south. Mounted upon racing camels, they go upon raiding expeditions and seek the oases, with which the great desert is strewn, for refuge and to replenish their stores. Until recently these mysterious Sahara tribes have seemed determined to bar the road to their territory against all white men.

Who are the Tuaregs? From whence came they? It is believed that they are remnants of the Berber tribes of Northern Africa, who occupied the Libyan Desert. The Romans and other nations, together with the Arabs, from time to time drove them back into the great desert.

The raid and conquest of the Arabs was fierce and bitter. Some of these Berber tribes had been Christians for six centuries and had formed the flourishing African church to which St. Augustine belonged and did not readily forsake their faith to adopt that of Mohammed. In consequence their land was confiscated and their olive orchards burned. Early in the ninth century this work of persecution began, and for two hundred years these people had been crowded back into the desert.

Their homes gone, the migrating Berbers had no way of preserving the annals of the exodus of their tribes into the wilderness; for they had no written language, and in the course of time their memory became dimmed as to their history. They are called Tuaregs by the Arabs, meaning "those who have renounced."

All memory of their ancient faith has been lost. The Latin cross, which was its emblem, is found on the hilts of their swords and in the ornaments on the bridles of their racing camels, but the Tuaregs, descendants of these ancient Berbers of Christian faith, have no knowledge of its significance.

The only occupations of these people are their wars and the long expeditions across the desert. Mounted upon swift camels, they traverse its vast extent. Their faces, which are concealed by a black veil, remind one of the mailed knights of the Middle Ages. No one has ever seen the face of one of these Tuareg warriors uncovered. The Arabs term them the "Veiled Ones."

The fineness of the texture of the veil with which a Tarki, a native of one of these tribes, conceals his features is indicative of his social rank. If of the higher class, he wears his veil night and day. The strongest proof of friendship he can give is to raise his veil and show his features while talking to any one.

A Tarki of noble rank wears a high cap of red cloth decorated with large black tassels. His upper garments consist of a long white shirt bound about the waist by a broad red scarf, and a sleeveless blouse of some black material adorned with costly gold and silver embroidery. His lower garment is a pair of wide white Turkish trousers which reach to the instep. On his feet he wears sandals made of goat skin. On his chest are small leather bags or metal cases; these contain amulets, generally large emeralds, of which rich deposits are found in the Sahara. Woven bands of leather fasten these bags or cases to his neck.

For weapons the Tarki carries a short dagger and a well-sharpened saber. These are fastened to his arm by a copper bracelet. The hilts of these weapons are always in the form of a Latin cross, and are adorned with five nails of copper arranged to represent a cross. He wears a two-handed sword suspended from his neck by a strong cotton cord, ending in two large tassels.

When out on an expedition the Tuaregs plant their long iron spears, inlaid with copper, in the ground, whenever they stop for the night or to rest awhile, and take a squatting position beside them.

Two or three iron javelins carefully sharpened are always fastened to the back or pommel of the saddle of a noble Tarki. These he can hurl to a great distance with considerable skill. As a means of defense he carries an oblong shield made of antelope skin and large enough to cover his whole person. Firearms he scorns to use.

In appearance the Tuaregs are tall, slender, and well formed. In disposition they are grave, silent, impassive, and affect an indifference to their surroundings. In character they are proud, cunning, quarrelsome, and tenacious. They are very excitable, brave, and enduring, and no privation nor fatigue can dishearten them. In their intercourse with others their hatred knows no pity, their vengeance no mercy.

They are the terror of the caravans that cross the desert, where every living being is an enemy. Whenever a solitary man appears on the dim horizon, the caravan makes ready for battle. It never thinks of approaching a well without sending out an advance guard to see if it is safe to proceed.

In attacking a caravan the Tuaregs first send out scouts in advance. These men are not armed, and under pretense of seeking food or by offering their services as guides, try to mingle with the caravan. Their object is to lead it to wells near which they know their warriors are lying in wait hidden behind sand hills.

Night is the time usually chosen for an onslaught, and generally at watering places a long distance apart. It is the custom for a caravan to stop several days at a well to allow the camels an opportunity to graze. A herd may thus be a long way from the main part of the caravan, and it is at such a time, when the forces are divided, that the Tuaregs usually make an attack.

In their rough life and hard struggle for existence they have become veritable outcasts. They are Mohammedans in name only, and do not repeat the five daily prayers with their faces turned toward Mecca; neither do they take their daily ablutions in the sand, as the prophet required. They use the Koran only when taking an oath, and are very faithful in keeping their pledges.

A curious custom, not unlike that which existed in the Middle Ages between the warrior knights and the religious orders, prevails; for the nobles leave the duty of praying to the tribes that form the middle classes. These tribes were formerly noble, but are now in a half-servile condition. They are excluded from certain privileges enjoyed by the warriors, to whom they pay heavy tribute in cattle, slaves, and dates. Aside from this they enjoy perfect freedom.

The old men, the women, the children, and the slaves

live in stone houses in villages and till the fields which surround them. Their lords dwell under leather tents and move from place to place, when necessary, to find fresh pasturage.

Should the French nation succeed in subjugating these brigand tribes of the Sahara, commerce in the desert will be as safe as that upon the sea.

There are two great branches of the African people, the Somal and Galla tribes, that occupy a large portion of Eastern Africa lying south and east of Abyssinia. These tribes are entirely distinct from the negro.

The Somal tribes occupy the country described as the great eastern horn of Africa, which terminates at Cape Guardafui.

Only a small portion of the country is known to Europeans. On the north it consists of a table-land, diversified by rugged cliffs as it approaches the coast, and by a wide maritime plain as it retreats from it. Inland this table-land stretches away towards the south in immense grassy plains. Great herds of gazelles, zebras, and antelopes roam over them; and the ostrich, giraffe, and elephant are found in large numbers. The central section is famed as a grazing land for camels, ponies, cows, and fat-tailed sheep.

The numerous Somal tribes, through mingling with the Arabs, have become Mohammedan fanatics. They speak a mixed language, have tall, slight, agile figures, and in color they are slightly darker than the Arabs. They have lips and noses almost Grecian in character, but woolly hair like the negro.

The Galla tribes occupy the immense tract of country,

nine hundred miles from north to south, lying south of Abyssinia in the maritime region of East Africa. Somaliland is the eastern limit. Lake Rudolph is probably its western limit, though it may have an extension to the northwest.

The country is, for the most part, unexplored. It consists of a moderately elevated plateau, dotted with isolated mountain groups and affords ample pasturage for cattle, camels, and horses.

The Galla tribes are a tall, finely formed people, who have bright, expressive eyes, and a deep brown complexion. The tribes of the various sections differ widely in their characteristics. Those occupying the southern borders of Abyssinia are brave warriors and keen traders. They are either Mohammedans or professed followers of the Christianity of Abyssinia. The southern Galla tribes are all heathen.

Just southwest of the Galla country, between the snowy peaks of Kenia and Kilimanjaro and the eastern shores of Victoria Nyanza, is a wide plateau section. This is occupied by warlike nomads. They are feared all along the maritime region, for they plunder the Arab caravans which make their way inland towards the lake region in their journey from the coast. The coast tribes live in constant fear of these marauders and are always on the alert against their attacks.

The Portuguese claim all the coast line of southeast Africa from a point near Cape Delgado, for a distance of fourteen hundred miles southward to Delagoa Bay. This possession is known as the Province of Mozambique, and is under the control of a governor appointed by the

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Crown of Portugal. He is aided by a small military force, mostly Portuguese convicts, and has almost unlimited authority in controlling the affairs of the settlements. The points along the coast actually occupied by the Portuguese are few and isolated.

On the mainland of East Africa we find a narrow maritime belt, ten miles in width, extending from the Rovuma to Ozi River. This is under the dominion of the Sultan of Zanzibar. Arrangements were made in 1888 and 1889 in which this coast line was to be governed by two companies, the one English, the other German.

Very recently the British East Africa Company made a formal transfer of all its territory to Great Britain. By the terms of the transaction the company surrendered its royal charter in return for the payment of two hundred and fifty thousand dollars. England has thus secured an immense tract of territory, a million square miles, for a comparatively small sum.

The territory over which the British Government will now assume control extends about four hundred miles along the coast northward from Umba, situated at the mouth of a river of the same name. The southern boundary line runs in a northwest direction to the intersection of the Victoria Nyanza with the first parallel of north latitude. It skirts the northern shore of the lake and extends westward as far as the boundary line of the Congo Free State.

Its northern boundary begins at the River Juba. This boundary line extends from the intersection of the river with the sixth parallel, north latitude, to the thirty-fifth meridian, east longitude, which it follows

to its point of intersection with the Blue Nile. The Congo Free State and the western watershed of the basin of the Upper Nile form the western boundary line.

Now that England has come into possession of so much East African territory, we may expect to receive much interesting information about the natives, as their land becomes open to civilization and commerce. A large part of East Africa must now become known to the world, and many improvements are to be looked for. A railway of six hundred and fifty-seven miles in length has at this early date been planned from Mombassa to Lake Nyanza. No doubt this will in time affect the great caravan routes into the interior.

At present the most frequented routes lead in several parallel lines from two coast towns opposite the Island of Zanzibar, extending up through the countries of Usagara and the dry plains of Ugogo to an Arab settlement in Unyamwezi, at a distance of five hundred miles from the coast. From here several routes lead northward to the countries surrounding Victoria Nyanza. The main line, however, passes westward to an Arab station in the country of Ujiji on the shores of Lake Tanganyika.

By means of a ferry across this wide lake the Arabs have extended their trade routes still farther west into the central country of Manyema. Here they have an important trading station on the great Lualaba, or Congo, in the very heart of Africa, fully one thousand miles west of Zanzibar.



## CHAPTER LXIX.

## PEN PORTRAITS.

Our most interesting descriptions of the people of Africa have been derived from the annals of Egyptian history and from the journals and letters of the many explorers who have from time to time come in contact with them.

According to history the ancient Egyptians were red men. They recognized four races of men, the red, the yellow, the black, and the white. In subsequent ages they were so desirous of preserving this aristocratic distinction of color that they represented themselves in crimson upon their monuments.

The present inhabitants of Egypt range from a yellow color in the north to a deep bronze. One writer believes that the ancient Egyptians belonged to a brown race which included the Nubian tribes and to some extent the Berber tribes of Algiers and Tunis.

The record of the greatness of ancient Egypt is preserved in her works. The pyramids, though but the ruins of their former grandeur, are the marvels of mankind. The river Nile, by means of enormous embankments, was diverted from its course to make a place for the old city of Memphis. The artificial lake of Moëro was created to make a reservoir for the Nile waters. It measured four hundred and fifty miles in circumference. Its depth was three hundred and fifty feet, and it possessed subterranean channels, flood gates, locks, and

dams, by means of which a sterile wilderness could be redeemed and changed into a fruitful valley.

The mason work of the ancient Egyptians was magnificent. In the casing of the Great Pyramid, we are told, the joints are scarcely perceptible, and not wider than the thickness of paper, and the cement so tenacious that fragments of the casing stones still remain in their original position, notwithstanding the lapse of so many centuries.

At one time the whole valley and delta of the Nile from the Cataracts to the sea was covered with temples, palaces, tombs, pyramids, and pillars, and almost every stone was covered with inscriptions.

The ancient Egyptians were the first mathematicians of the Old World and the first surveyors of land. They were the first astronomers, and they not only calculated eclipses but watched the periods of the planets and constellations. They were even aware of the rotundity of the earth, although Columbus has always been credited with being the first to discover this truth.

As early as the year 1722 B.C. the signs of the zodiac were in use among the Egyptians. A delineation of these signs was found upon a mummy case in the British Museum, and the date to which they pointed indicated the autumnal equinox of the year 1722 B.C.

These ancient Egyptians had clocks and dials for measuring time, and they possessed coins of gold and silver. They were the first agriculturists of the Old World, for history tells us that they raised cereals, and gave attention to the rearing of cattle, horses, and sheep. They manufactured linen fabrics of so fine a quality

that, 600 B.C., a single thread of a king's garment was comprised of three hundred and sixty-five fibers. They worked in gold and silver, in copper, bronze, and iron. The latter they tempered to the hardness of steel.

They were the first chemists, and manufactured glass and various kinds of pottery. Out of earthenware they made their boats, and manufactured vessels of paper, just as in modern times we make the wheels for railway cars out of paper. Their dentists understood the art of filling teeth with gold, and their farmers hatched poultry by means of artificial heat.

They were the first musicians, and used guitars, cymbals, drums, lyres, harps, flutes, etc. In medicine and surgery they had acquired such skill that, several hundred years before Christ the removal of cataract from the eye, a most delicate and difficult surgical operation, was performed among them. Their carpenters' and masons' tools were almost identical with those in use to-day.

All these facts of history tend to prove that ancient Egypt was a land peopled by an intellectual and refined race whose works live after them.

The great mass of the people in Lower Egypt are known as the ploughers, and are the descendants of the old Egyptians and of the Arabs who invaded the land. There are still Egyptians of unmixed ancestry to be found in the land. They are called Copts, and profess Christianity. The Arabs of pure ancestry, descendants of the conquerors of the Egyptians, are represented by the Bedouins, most of whom lead a wandering life, though a few have exchanged their nomadic life for a settled one in houses.

Among the many pleasing pictures of the nations of the interior, Dr. Barth, an explorer, furnishes one of a fine large town in Negroland proper. The houses were built partly of clay, with neatly thatched roofs of reeds; while the courtyard was fenced in with the same material. There was a cool outer building, formed of reeds and latticework, which seemed to be a reception hall for visiting and for the transaction of business; the whole surrounded by spreading trees. To add to the picture, groups of children, goats, fowls, pigeons, and — if the wealth of the family admitted — a horse or pack ox usually surrounded each hut. The people were cheerful and kindly and seemed to enjoy all that a wise Creator had provided for their sustenance.

At another town Dr. Barth found rude fortifications of clay. At this town, like the one before it, there was a dyehouse, for indigo was largely cultivated. The intervening country was exceedingly beautiful, with a great variety of vegetation. Here were many kinds of birds, known and unknown, and great herds of milk-white cattle were scattered over the rich pasture lands.

The population was small, but the people were active and industrious. Some women, bearing on their heads from six to ten calabashes filled with various things, joined the caravan, and not long after, a troop of men loaded with indigo plants passed by on their way to the dyehouse.

Extensive tobacco fields lay before them, and beehives, formed out of thick, hollow logs, were fastened to the giant branches of the colossal trees of the country.

Passing through cultivated fields and populous villages where indigo was grown and prepared, his caravan reached a large, flourishing town, a little world in itself, different in external form from all that is seen in European towns, yet similar in many ways.

Here was a row of shops filled with articles of native and foreign produce, with buyers and sellers in every variety of figure, complexion, and dress. There were all the necessaries of life; the wealthy buying the more palatable things for their tables, the poor stopping to look greedily upon a handful of grain.

Here was a yard neatly fenced with reeds, and a clean, snug-looking cottage, the clay walls nicely polished, a shutter of reeds placed against the low, well-rounded door, a cool shade for the daily household work, a fine spreading tree, with its deep shadow during the hottest hours of the day, or a beautiful specimen unfolding its large featherlike leaves, or the tall date tree waving over the whole. The matron wore a clean, black, cotton gown wound round her waist; her hair was neatly dressed, and she was busy preparing the meal for her absent husband, or spinning cotton, and at the same time urging the female slaves to pound the corn. The children were naked and merry, playing about in the yard, or chasing a stubborn goat. Earthenware pots and wooden bowls, all cleanly washed, stood in order.

No one seemed idle; there was employment for all. Here was an open terrace with its many dye pots, and the people engaged in the various processes of their art. Farther on could be seen a sturdy blacksmith wielding

his clumsy tools and producing, as a result of his labors, a dagger, the sharpness of which was, indeed, a surprise, when one saw the crudeness of his tools. Off in another direction men and women made use of a sheltered space along the fences to hang their cotton thread for weaving. Here was a caravan arriving with the prized *kola nut*, which had become as necessary to these people as tea or coffee is to the inhabitants of more civilized lands; and there a caravan starting off with salt for the neighboring towns. Arabs were seen leading their camels with heavy loads of the luxuries of the north and east, and troops of gaudy, warlike horsemen came galloping towards the palace of the governor. Everywhere was life in all its various phases.

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## CHAPTER LXX.

### VIEWS FROM LIVINGSTONE.

Livingstone describes a curious custom among the Bechuana and Kaffir tribes south of the Zambesi River. The ceremony, as he describes it, was as follows:—

At break of day a row of boys, about fourteen years of age, stood facing a line of men in preparation for the national dance. All were without clothing. Each boy held a pair of sandals upon his hands as a sort of shield. The men were provided with long thin wands cut from a tough, strong, supple bush.

As the dance progressed, certain questions were put to the boys, as, "Will you guard the chief well?"

“Will you herd the cattle well?” As the boys answered in the affirmative, the men rushed towards them, and each aimed a full, well-directed blow at the back of the boy nearest him. Stroke after stroke of the supple wand descended upon the bared back of the would-be warrior, until the flesh was raw and bleeding. Not a boy dreamed of being coward enough to cry out. All he did was to protect his head by the sandal shields upon his hands, as he held them uplifted.

This treatment was intended to harden the young soldiers and prepare them for their life as brave warriors. At the close of such a dance, it was no uncommon thing for the backs of the boys to be seamed with wounds and cuts, the scars of which would be lifelong.

On the return to town, after this ordeal, a prize was offered to the lad who could run the fastest. This prize was placed in a conspicuous place, where all spectators could see the winner of the race run up to snatch it. The race over, the boys were entitled to sit among the elders and to be called no longer lads but men. When a young brave had succeeded in killing a rhinoceros, he was deemed old enough and skillful enough to support a household of his own and might then marry.

While exploring the banks of the Chobe, Livingstone and his men paddled on from midday till sunset in a small pontoon which they had launched. Just as the short twilight of this section was commencing, they perceived on the north bank two native villages, one belonging to the Makololo tribe. In surprise the ignorant natives exclaimed in figurative speech, “He has

dropped among us from the clouds, yet came riding on the back of a hippopotamus! We Makololo thought no one could cross the Chobe without our knowledge, but here he drops among us like a bird."

The Makololo tribe took great pride in their domestic animals, for they were noted as raisers of fine cattle. The women did little work, for most of the tilling of the soil was done by the tribes subject to the Makololo.

The women wore kilts reaching to the knees, made of ox skin dressed till it was as soft as cloth. This costume was by no means ungraceful, for a soft skin mantle was thrown across the shoulders to complete the effect. When at work the women discarded this mantle and were dressed merely in the kilt. The hair was cut quite short, and no woman felt that her toilet was complete unless her whole body had been rubbed in butter till it shone.

Large brass anklets, as thick as the little finger, and armlets of either brass or ivory, often an inch broad, were the fashionable ornaments coveted by these savage belles. Often these anklets were so heavy as to blister the skin by their weight and pressure. Strings of beads were worn about the neck; light green and pink were the fashionable colors and commanded a great price.

Comparing the huts of some of the natives, Livingstone writes: "The Makololo huts are generally clean, while those of the Makalaka are infested with vermin. The cleanliness of the former is owing to the habit of frequently smearing the floors with a plaster composed of cow manure and earth.

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“If we slept in the tent in some villages, the mice ran over our faces and disturbed our sleep, or hungry, prowling dogs would eat our shoes and leave only the soles. When they were guilty of this and other misdemeanors, we got the loan of a hut.

“The best sort of Makololo huts consist of three circular walls, with small holes as doors, each similar to that in a dog house; and it is necessary to bend down the body to get in, even when on all fours. The roof is formed of reeds or straight sticks, in shape like a Chinaman’s hat, bound firmly together with circular bands, which are lashed with the strong inner bark of the mimosa tree. When all is ready, except the thatch, it is lifted upon the circular wall, the rim resting on a circle of poles, between which the third wall is built.

“The roof is thatched with fine grass, and sewed with the same material as the lashings; and, as it projects far beyond the walls, and reaches within four feet of the ground, the shade is the best to be found in the country. These huts are very cool in the hottest day, but are close and deficient in ventilation by night.”

Livingstone found much superstition prevailing among the people on the banks of the Leeba, and here and there evidence of the worship of idols was noticeable.

The chiefs were frequently women. One whom Livingstone visited was adorned with oil and red ochre, with a plentiful supply of ornaments upon her wrists, ankles, and about her person; but a very little clothing seemed to satisfy her desire for fine apparel. Her

husband's clothing consisted of a kilt of green and red baize, his arms of a spear and a broadsword of antique fashion.

The houses in the village were found to be well stockaded, and were all separate buildings. The fire-arms found among the tribes farther south were lacking; bows and arrows were used in their place, and had very effectually cleared the country of game.

While penetrating farther and farther east into the Londa territory, Livingstone encountered some natives of whom he wrote: "Surrounded on all sides by large, gloomy forests, the people have a much more indistinct idea of the geography of their country than those who live in hilly regions.

"The people seemed more slender in form, and their color a lighter olive, than any we had hitherto met. Their mode of dressing the great masses of woolly hair which lay upon their shoulders, together with their general features, again reminded me of the ancient Egyptians.

"A few of the ladies adopt a curious custom of attaching the hair to a hoop which encircles the head, giving it somewhat the appearance of the glory round the head of the Virgin. Others wear an ornament of woven hair and hide adorned with beads. The hair of the tails of buffaloes, which are to be found farther east, is sometimes added; while others weave their own hair on pieces of hide into the form of buffalo horns, or make a single horn in front.

"Many tattoo their bodies by inserting some black substance beneath the skin, which leaves an elevated

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cicatrix about half an inch long; these are made in forms of stars, and other figures of no particular beauty."

A little to the southward he found natives who had not been visited by the slave dealers to any great extent, rather timid, but civil. Of these he gives the following account:—

"The same olive color prevailed. They file their teeth to a point, which makes the smile of the women frightful, as it reminds one of the grin of an alligator.

"The inhabitants throughout this country exhibit as great a variety of taste as appears on the surface of society among ourselves. Many of the men are dandies; their shoulders are always wet with the oil dropping from their lubricated hair, and everything about them is ornamented in one way or another. Some thrum a musical instrument the livelong day, and, when they wake at night, proceed at once to their musical performance. Many of these musicians are too poor to have iron keys to their instruments, but make them of bamboo, and persevere though no one hears the music but themselves.

"Others try to appear warlike by never going out of their huts except with a load of bows and arrows or a gun ornamented with a strip of hide for every animal they have shot; and others never go anywhere without a canary in a cage. Ladies may be seen carefully tending little lapdogs, which are intended to be eaten.

"The villages are generally in forests, and composed of groups of irregularly planted brown huts, with banana and cotton trees, and tobacco, growing

around. There is also at every hut a high stage erected for drying manioc roots and meal, and elevated cages to hold domestic fowls.

“Round baskets are laid on the thatch of the huts for the hens to lay in, and on the arrival of strangers, men, women, and children ply their calling as hucksters with a great deal of noisy haggling. All their transactions are conducted with civil banter and good temper.”

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## CHAPTER LXXI.

### VIEWS FROM ANDERSSON.

When Andersson visited Damaraland he found the natives an exceedingly fine-looking race. They were tall, well-formed, and had a graceful carriage. In color they were dark, but not black. So dirty was their skin, however, that it was impossible to discover its natural color under the coating of red ochre and grease with which it was smeared.

Little clothing was worn. The only garment consisted of a sheepskin or goatskin wrapped about the waist or thrown carelessly over the shoulders. The girls wore a kind of apron, made of quantities of small strings, from which were suspended ornaments in the form of iron and copper beads.

The men wore few ornaments, but the women who could afford it decorated their wrists and ankles with iron and copper rings. The headdress of the married

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women was curiously picturesque, its general shape and appearance resembling a helmet.

In place of regular garments the men wore strips of leather, often several hundred feet in length, wound around the loins. Their clubs and pipes were carried in these unique belts and bands.

These natives were always well armed; they carried lances, bows and arrows, and clubs. Another national weapon was a stick with a knob on the end. Andersson found these natives very skillful in throwing it, for they often brought down birds upon the wing.

They were nomadic in their life, and with their enormous herds of cattle wandered over the country, leaving it bare of vegetation. They had a curious custom of taking an oath in token of sincerity of purpose, when they swore by "the tears of their mothers."

Andersson was much interested in the natives of Ovampo land and their customs. They cultivated two kinds of corn. One was the common Kaffir corn, and the other a small-grained variety. At the ripening of the corn, these natives simply cut off the ear and left the remainder to the greedy cattle.

In addition to corn, the Ovampo people cultivated calabashes, watermelons, pumpkins, beans, and peas. Some tobacco was also raised. The quality of it was, however, rather poor. To prepare it, the leaves and stalks of the ripened plant were collected and then pressed in a hollow piece of wood by means of blows from a heavy pole.

The Ovampo had, also, great herds of cattle, as well as sheep and goats. They had hogs, too, of an enormous

size. Among the domestic animals Andersson noticed dogs and fowl.

These people were found to be exceedingly hospitable, and Andersson's party was well entertained. The chief was very kindly disposed, and every night after dark held a ball at the royal residence. Here the people danced to the national music of the tom-tom and a species of guitar.

The Ovampo women were not unpleasing in appearance. When young they had very good figures, but the older women were exceedingly ungainly. No doubt the weight of the heavy copper ornaments with which they loaded their wrists and ankles was one great cause of this ungainliness. It was no uncommon thing for these ankle rings to weigh two or three pounds apiece. As a pair was worn on each leg, this was no inconsiderable weight to carry about. In addition, necks, wrists and hips were almost hidden by a profusion of shells, cowries, and beads of every size and color. This was considered an essential feature of their dress.

Both men and women had short, crisp, woolly hair. The men often shaved the head, with the exception of the crown, while the women besmeared and stiffened their hair with grease and a vermillion-colored substance, which, from being constantly added to and pressed upon the upper portion of the head, gave it a somewhat broad, flat look.

The women smeared their bodies with grease and red ochre as an additional touch for full-dress occasions. The men wore few ornaments, with the exception of bead or shell earrings.

Both men and women had the curious custom of chipping off the middle tooth of the lower jaw in token that they had outgrown childhood and had reached manhood and womanhood.

Wishing to explore the Ovampo River, Andersson hired a native to transport him in a canoe. The man seemed to enjoy the situation, and took pains to paddle slowly along the river's bank and make a halt at every hut, that the inmates might view the white man at their leisure.

The men of this tribe Andersson describes as strong and well-built, but the women were as ugly as any he had ever seen in Africa.

The river itself and the landscape on either side were beautiful beyond description. Fruit trees, and well-wooded ranges of mountains, stretched away on either hand, forming a background for the beautiful scene. Hippopotamuses and waterfowls were in abundance, and hosts of crocodiles sunned themselves upon the islands which here and there showed above the surface of the water.

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## CHAPTER LXXII.

### NEW VIEWS OF NATIVES.

Among the Bechuana tribes the government is patriarchal, and each man is chief over his own children. Livingstone writes of them: "They build their huts around his, and the greater the number of children,

the more his importance increases. Hence, children are esteemed one of the greatest blessings, and are always treated kindly.

“Near the center of each circle of huts there is a spot called a ‘kotla’ with a fireplace; here they work, eat, or sit and gossip over the news of the day. A poor man attaches himself to the kotla of a rich one, and is considered a child of the latter.

“An under-chief has a number of these circles around his; and the collection of kotlas around the great one in the middle of the whole, that of the principal chief, constitutes the town. The circle of huts immediately around the kotla of the chief is composed of the huts of his wives and those of his blood relations.

“They are fond of the relationship to great families. If you meet a party of strangers, and the head man’s relationship to some uncle of a certain chief is not at once proclaimed by his attendants, you may hear him whispering, ‘Tell him who I am.’ This usually involves a counting on the fingers of a part of his genealogical tree, and ends in the important announcement that the head of the party is half-cousin to some well-known ruler.”

On one occasion, when Livingstone attempted to hold his first public religious service, a great chief remarked that it was one of the customs of his nation to ask questions when any new subject was brought before them, and begged to be allowed to do so on this occasion.

Livingstone’s description of the interview is interesting, since it gives us some idea of the intelligence of this untaught child of nature: “On expressing my

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willingness to answer his questions, he inquired if my forefathers knew of a future judgment. I replied in the affirmative, and began to describe the scene of the 'great white throne, and him who shall sit on it, from whose face the heaven and earth shall flee away,' etc. He said, 'You startle me; these words make all my bones to shake; I have no more strength in me; but my forefathers were living at the same time as yours were, and how is it that they did not send them word about these terrible things sooner? They all passed away into darkness without knowing whither they were going.'

"I got out of the difficulty by explaining the geographical barriers in the north, and the gradual spread of knowledge from the south, to which we first had access by means of ships; and I expressed my belief that, as Christ had said, the whole world would yet be enlightened by the Gospel.

"Pointing to the great Kalahari Desert, he said, 'You never can cross that country to the tribes beyond; it is utterly impossible even for us black men, except in certain seasons, when more than the usual supply of rain falls, and an extraordinary growth of watermelons follows. Even we who know the country would certainly perish without them.'

The watermelon may well be considered the most surprising plant of the desert. In certain years, when more than the usual amount of rain has fallen, vast tracts of country are literally covered with these melon plants. Years ago, when the annual fall of rain was greater than it is now, the natives were in the habit

of sending trading parties to the lake section each year.

Now, according to Livingstone's accounts, these extraordinary rains occur only once in ten or eleven years, with the subsequent abundance of melons. When such an event occurs, not only man, but animals of every description, rejoice over the rich harvest. The elephant, monarch of the forest, fairly revels in the fruit; and the rhinoceros, though his tastes are naturally so very different from the elephant's, is equally fond of it. Not only do the antelopes feed upon it with eagerness, but even the lions, hyenas, jackals, and mice seem to recognize its merits and to appreciate this blessing of an agreeable, succulent food in an arid soil.

True, all of these melons are not eatable. Some are sweet; others are bitter, so that the Boers invariably speak of the fruit as the bitter watermelon, and make no distinction between the varieties.

The natives, in selecting the fruit, strike each melon with a hatchet; and then, to distinguish between the bitter and the sweet ones, apply the tongue to the aperture in each. The bitter melons are harmful, but the sweet ones are considered very wholesome. Bees often convey the pollen from the blossoms of a bitter melon vine to those of a sweet variety and completely change the character and flavor of its fruit.

The inhabitants of the Kalahari Desert consist of the nomadic Bushmen and a tribe said to be the oldest of the Bechuana tribes. The Bushmen are the aborigines of the country, and live in the desert from choice. Their chief food consists of the flesh of game, eked out

by such roots, beans, and fruit as the women can collect.

In the hot sandy plains they are generally thin, with wiry frames capable of enduring hardship and privation. Many are of small stature, though by no means dwarfish. Nomadic in their taste, they never cultivate the soil, nor rear any domestic animals, unless it be a few wretched dogs. They possess an intimate knowledge of the habits of the various game animals, and follow them from place to place as their lawful prey.

The descendants of the ancient Bechuana tribes at one time possessed enormous herds of the large horned animals; when despoiled of these, they were driven into the desert, which thus by compulsion became their home.

They are very different in their tastes and habits from the Bushmen. Though subjected to the same influences of climate, and obliged to endure the same thirst, and to subsist upon practically the same food, they stand a race distinct in itself.

They have all the Bechuana love for agriculture and domestic animals. They hoe their gardens annually, though often all they can hope for is a supply of melons and pumpkins. They rear with great care, too, small herds of goats, though they have been known to be obliged to obtain water for them out of small wells with a bit of ostrich eggshell or by the spoonful.

These people have a great dread of strange tribes of Bechuanas, and choose their residences far from the water pits which would naturally attract wayfarers. Not unfrequently they hide all outward signs of such

pits by filling them with sand and by making a fire over them.

The women of the desert take great pride in their ability to bear pain. A mother will say to her little girl from whose foot she has just extracted a thorn, "Now, ma, you are a woman; a woman does not cry."

A curious ceremony is held to train young women to endure the hardships of carrying water. Clad in a dress composed of ropes made of alternate pumpkin seeds and bits of reed strung together, and wound round the body in a figure-of-eight fashion, a number of them are drilled by an old woman of the tribe, until they become accustomed to bear fatigue, and can carry large pots of water without complaint. It is no uncommon thing to find scars upon the forearm, which have been made by bits of burning charcoal. These, without doubt, were inflicted to test the power of the young women to bear pain.

Among the tribes in the country about the Leeambye River they have no stated day of rest, except the day after the appearance of the new moon. At that time the people refrain from going to their gardens.

A curious custom prevails among the black tribes beyond the Bechuanas. They watch eagerly for the first glimpse of the new moon, and when they perceive the faint outline after the sun has set deep in the west, they utter a loud shout of 'Kuā!' and short prayers to it. Livingstone's men, for instance, called out, "Let our journey with the white man be prosperous! Let our enemies perish, and the children of Nake become rich! May he have plenty of meat on this journey."

At one time in his journeyings, Livingstone was entertained by a party of musicians, consisting of three drummers and four performers on the piano. The drums were neat instruments cut from the trunk of a tree. They had a small hole in the side covered with a bit of spider's web. The ends were covered with antelope skin fastened on by pegs. When the drummers wished to tighten the drumhead, they held it over the fire to make it contract. There were no drumsticks, for the instrument was beaten with the hands.

The piano, as described by Livingstone, consists of two bars of wood placed side by side, sometimes quite straight, sometimes bent round so as to resemble half the tire of a carriage wheel. Across these are placed about fifteen wooden keys, each of which is two or three inches broad, and fifteen or eighteen inches long. Their thickness is regulated according to the deepness of the note required. Each of the keys has a calabash beneath it, from the upper part of which a portion is cut off to enable it to embrace the bar and form a hollow sounding-board to the key; and little drumsticks produce the music. Rapidity of execution was much admired, and the music was pleasant to the ear.

On one occasion Livingstone was exhibiting the pictures of a magic lantern. The first picture shown was that of Abraham in the act of uplifting the knife with which to slay Isaac. After the picture had been explained, he attempted to move the slide, when the uplifted dagger appeared to be moving towards the interested spectators. Thinking it was to be sheathed in their own bodies, all the women with one accord

rushed off helter-skelter, tumbling over each other, and shouting "Mother! mother!" Over the idol huts and tobacco bushes they fled like startled fawns, nor could one of them be induced to return. Their chief, however, sat bravely through the exhibition and afterwards examined the lantern with great interest.

Many of the native tribes are very superstitious, and will not touch food offered to them by other tribes. Among themselves they stand upon much ceremony. Each man has his own hut where he has his fire. Should it go out he will build it afresh rather than to take live coals from a neighbor.

In the deep, dark forest near each village, idols were frequently met. Some were intended to represent the human head or a lion's; others were merely crooked sticks smeared with medicine. Sometimes a little pot of ~~water~~, were inflicted in a shed, or miniature huts women to bear pain. ~~water~~ in them.

Among the tribes in the the forest, outlines of human River they have no stated ~~and~~ were seen. The outlines after the appearance of the ne~~a~~ a close resemblance to the people refrain from going ~~ments~~. At frequent in-

A curious custom prevails ~~in~~ trees along the path, beyond the Bechuanas. They ~~of~~ massive roots or first glimpse of the new moon, and ~~shes~~ attracted the the faint outline after the sun has set ~~det~~ they utter a loud shout of 'Kuā!' and shout ~~to~~ which it. Livingstone's men, for instance, called out, ~~as were~~ our journey with the white man be prosperous! ~~from his~~ our enemies perish, and the children of Nake bec~~ome~~ mit a rich! May he have plenty of meat on this journey."

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Poor and ignorant as these savages were, their fears seemed intensified by the gloom of the forest recesses, and they appeared to be ever striving to propitiate by their offerings some higher order of being, who might hold sway there.

Many of the tribes were found to have a strong belief in the power of charms for good or evil. This belief seemed productive of honest and gentle dealing among the natives; while the fear that even the weak and helpless might work injury to those stronger than themselves, through their knowledge of the nature of these charms, often held in check those who might otherwise have been despotic in their dealings.

At one of the villages a man showed the grave of his child, and with much display of feeling told how she had been burned to death in her hut. He had come to the place with all his family, and had built huts around it, in order to weep for her. His fear was that if her grave should be left unguarded, witches might come and bewitch the remaining relatives by placing medicines on the grave.

The people of the Barotse tribe have a very decided belief in the continued existence of the spirits of the departed. Livingstone mentions that one of his men suffering from a headache said sadly and thoughtfully, "My father is scolding me because I do not give him any of the food I eat." Upon being asked where his father was, he answered, "Among the Barimo."

Along the banks of the Quilo the country, when visited by Livingstone, was occupied by natives who had once been sold as slaves and afterwards freed. Though

far from their old homes, they seemed contented and happy.

This section of country was full of villages. Food was abundant, and little labor was necessary to cultivate the soil. The ground was so rich that it was not necessary to fertilize it. Whenever a garden became too poor to produce good crops of maize and millet, the owner of it immediately broke ground a little farther into the forest, applying fire to the roots of the larger trees to kill them, and cutting down the smaller ones. This done, his new rich garden was ready for planting.

Such a garden usually presented the appearance of a large number of tall dead trees stripped of their bark, with maize growing between them. The deserted gardens often continued to produce manioc for many years after their owners had sought new spots for their crops of maize and millet.

The character and temperament of the owners of the various gardens in the villages could be easily detected. Sometimes whole villages were the picture of neatness. Others seemed enveloped in a perfect wilderness of weeds growing to such a height that even when sitting on the back of an ox in the midst of a village one could see only the tops of the huts. If a stranger should enter one of these villages at midday the owners would come forth in an indolent fashion, sometimes pipe in hand, or leisurely puffing away in dreamy indifference.

In some of the villages weeds were not allowed to grow, and cotton, tobacco, and various plants used as food were planted around the huts. Fowls were kept in cages, and the gardens were pleasant pictures of grain and pulse in different stages of growth.

Every village swarmed with children, who turned out in crowds, and ran along with strange cries and antics, to see the white man pass.

## CHAPTER LXXXIII.

### MORE VIEWS FROM LIVINGSTONE.

Situated a few miles from the edge of a steep descent, Livingstone found a West African village provided with travelers' houses, on the principle of the inns of the East. These were built of twigs and plaster and had benches made of rods, on which the wayfarer could make his bed; a few chairs, a table, and a large jar of water completed the furnishings.

A little farther on lay a village of the Basongo, a tribe subject to the Portuguese, and as the route of Livingstone's expedition lay through a fine, fertile, well-peopled country, luxuriant fields of wheat were seen growing without irrigation. Gradually the country became more open, but remained still abundantly fertile, with a heavy crop of grass growing to a height of two or three feet. The whole section was well wooded and watered.

The landscape was dotted with Basongo villages, while frequently a square house built of twigs and plaster, belonging to some native Portuguese, stood beside them and was used for purposes of trade.

The different sleeping places on the pathway were

from eight to ten miles apart, and were marked by a cluster of sheds made of sticks and grass.

There was a constant stream of people going and returning to and from the coast. Goods were carried upon the head, or upon one shoulder, in a kind of basket fastened to the ends of two poles between five and six feet long.

When the basket was placed upon the head, the poles projected forward horizontally; and if the carrier wished to rest himself, he planted these poles on the ground, and rested his burden against a tree. In this way he was not obliged to lift it from the ground to the level of his head, when he wished to take up his load again. Frequently with the poles planted in the ground a carrier could be seen holding his burden until he had recovered his breath, thus avoiding the exertion of lowering and lifting his load.

Upon the arrival of strangers at any of the sleeping stations, women were seen emerging from the villages bearing baskets filled with manioc meal, roots, groundnuts, yams, bird's eye pepper, and garlic, which they offered for sale. Calico was usually taken in exchange for these goods.

In Angola the markets, or sleeping places, were well supplied with provisions by the native women. These women congregated in great numbers, each spinning cotton with a spindle and distaff, which were precisely like those in use among the ancient Egyptians.

It was not uncommon to see one of them passing through the fields with a jar on her head, a child on her back, and a hoe over her shoulder, while her fingers

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were busily employed in spinning. The cotton was brought to market and commanded a penny a pound.

Frequently the cotton seeds, dropped accidentally around the market places, sprouted, and grew luxuriantly in various spots.

Along the roads natives were seen passing with spindles full of cotton thread. These they were carrying to other parts to have woven into cloth. The women did the spinning and the men the weaving.

The loom was of very simple construction. It consisted of two beams placed one over the other, on which the web stood perpendicularly. The threads of the web were separated by means of a thin wooden lath, while the woof passed through by means of the same spindle on which it had been wound in spinning. Each web was about five feet long, and fifteen or eighteen inches wide.

This mode of spinning and weaving in Angola and throughout South Central Africa was very similar to the same pursuits as practiced by the ancient Egyptians.

At the sleeping stations the native smiths carried on their trade, and various articles, as good table knives, and the like, made of country iron, were offered for sale.

Livingstone found the banks of the Lucalla very pretty, and well planted with orange trees, bananas, and the oil palm, and wrote: "Large plantations of maize, manioc, and tobacco are seen along both banks, which are enlivened by the frequent appearance of native houses imbosomed in dense shady groves, with little boys and girls playing about them.

"The banks are steep, the water having cut its bed

in dark red, alluvial soil. Before every cottage a small stage is erected to which the inhabitants may descend to draw water without danger from the alligators. Some have a little palisade made in the water for safety from these reptiles, and others use the shell of the fruit of the baobab tree attached to a pole about ten feet long, with which, standing on the high bank, they may draw water without fear of accident."

The whole of the colored population of Angola was sunk in superstition. When a death occurred, the people busied themselves in beating drums and firing guns. The funeral rites were half festive, half mourning. Nothing could have been more heartrending than the death wails.

When these natives turned their eyes to the future world, they had the most cheerless view of their own utter helplessness. They fancied themselves completely in the power of disembodied spirits, and the prospect of following them was looked upon as the worst of misfortunes. Hence, they were found constantly deprecating the wrath of departed spirits, in the belief that if they could appease them, only one cause of death, witchcraft, could remain, and that they could avert by charms.

The pleasures of a mere animal existence were ever present in their minds as the highest good, and but for these innumerable invisible agents, they believed they might enjoy to the fullest extent the bounties of their luxuriant climate as much as would be possible for man to do.

Another curious custom prevailed among some of the

tribes encountered by Livingstone. This ceremony was for the purpose of cementing friendship. The hands of the parties were joined, and incisions were made on the clasped hands, and on the right cheeks and foreheads. A small quantity of blood was taken from these points in both parties, put into pots of beer, and each then drank the other's blood ; and they were supposed thus to become perpetual friends or relations.

During the drinking, some of the party beat the ground with clubs, and uttered sentences to ratify the treaty. The men belonging to each tribe then finished the beer. The principals in the performance were henceforth considered blood relations, and were bound to disclose to each other any impending evil.

Among the Batoka tribes the ancient custom of knocking out the upper front teeth of the young men and women prevailed. In the absence of the upper teeth the lower ones grew long and somewhat bent out, which caused the under lip to protrude in a most unsightly fashion. When asked as to the origin of this custom, the Batoka replied that their object was to look like oxen and that those who retained their incisors were thought to resemble zebras.

A person who possessed his front teeth was considered ugly ; and when any of the Batoka borrowed Livingstone's mirror, the disparaging remark would be made of boys and girls who still retained their incisors, "Look at the great teeth !"

The manner of dressing the hair is a peculiar feature among the different African tribes. Livingstone describes one of the modes as follows :— "A circle of

hair at the top of the head, eight inches or more in diameter, is woven into a cone eight or ten inches high, with an obtuse apex, bent, in some cases, a little forward, giving it somewhat the appearance of a helmet.

“Some have only a cone, four or five inches in diameter at the base. It is said that the hair of animals is added; but the sides of the cone are woven somewhat like basket work. The head man of this village, instead of having his brought to a point, had it prolonged into a wand, which extended a full yard from the crown of the head.

“The hair on the forehead, above the ears, and behind, is all shaven off, so the people appear somewhat as if a cap of liberty were perched upon the top of the head. After this weaving is performed, it is said to be painful, as the scalp is drawn tightly up; but they become used to it.”

Many other curious customs prevail among the native tribes. Among the different Bechuana tribes it is the custom to select the name of some animal to distinguish one tribe from another. This would seem to indicate that in former times they were addicted to the worship of animals, like the old Egyptians. We find one tribe bearing a name signifying “they of the monkey;” another, “they of the alligator;” or, “they of the fish.”

Each tribe holds the animal from which it derived its name in superstitious fear; nor will a man eat the animal for which his tribe was named, and frequently uses a term signifying hate or dread in referring to it.

Each tribe has its favorite and characteristic dance, and many tribes adopt the custom of naming themselves

from the national dance. Hence, it is no uncommon thing to hear the question, "What do you dance?" when the wish is to ascertain to what tribe a man belongs. This custom would seem to indicate that the national dance was a part of the ancient worship in certain sections of Africa.

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## CHAPTER LXXIV.

### CURIOS MODES.

Livingstone says that among many tribes the mode of salutation was by clapping the hands; and whenever the white man appeared, parties of women came from the several villages, betraying much fear, and clapping the hands with renewed vigor whenever they were addressed.

Near the Zambesi River tribes were met, the women of which were in the habit of piercing the upper lip, and gradually enlarging the orifice until a shell could be inserted. The lip then appeared drawn out beyond the extremity of the nose and gave the face a most ungainly appearance. The chief of another tribe remarked, "These women want to make their mouths like those of ducks." Indeed, it did seem as if their idea of beautiful mouths had been derived from the duck's bill.

In the vicinity of the Falls of the Zambesi, tribes were found where the women had merely a small punc-

ture in the upper lip in which a tin button was inserted. The perforation had been made by degrees; first a ring with an opening in it had been attached to the lip, and then the ends had been gradually squeezed together. The pressure on the flesh between the ends of the ring had caused it to be absorbed, and a hole had resulted from the treatment. Children were frequently seen with the ring attached to the lip which had not yet been punctured.

It was in the vicinity of Zambesi that many of the gardens were built upon stagings, while some of the huts were built in trees, in case any of the natives should become benighted in the forest. This was for protection from the lions and hyenas, which were very abundant, since no attempt was ever made to exterminate them, owing to the belief that the souls of departed chiefs had entered into them. So superstitious were these natives that they even believed a chief could change himself into a lion, kill any one he chose, and then return to his human form. Whenever a lion was met he was greeted with a tremendous clapping of the hands by way of salutation.

Among the Banyai tribes a fair complexion was considered as much a mark of beauty as among civilized races. Many of these natives were of a light coffee-colored complexion and were considered very handsome throughout the country.

These tribes had a peculiar mode of drawing the hair out into small cords a foot in length and entwining the inner bark of a special tree round each separate cord. The substance for binding the cords was dyed a reddish

color, and the whole arrangement of the hair reminded Livingstone very strongly of one of the ancient Egyptian fashions.

This great mass of dressed hair reached to the shoulders usually; when, however, the natives were about to travel over the country, the mass was drawn up into a bunch and tied on the top of the head.

The people of this section along the shores of Lake Nyassa were found to be very industrious; they combined agriculture and hunting with nets, with various other pursuits; of these blacksmithing was the chief industry.

The sound of the hammer was heard constantly in the villages. This instrument was most primitive in its construction. It was simply a large stone bound around with the strong inner bark of a tree, with loops left to form handles. Two pieces of bark formed the tongs, while the anvil was merely a large stone sunk in the ground. Two goat skins furnished with sticks at the open ends, which opened and shut them at every blast, comprised the bellows.

Primitive as these tools were, yet two native workmen could make several hoes a day, and turn out other work of a wonderful degree of excellence.

The people had quite a Grecian cast of features, and their limbs and feet were delicately moulded. Small hands and feet were the rule. Many of the men were disfigured by having large slits in the lobe of the ear, while each tribe had its own distinctive tattoo. The head man of each village was distinguished from the others by a large ivory bracelet.



DR. LIVINGSTONE NEAR THE CLOSE OF HIS LAST JOURNEY

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The women were more elaborate in their manner of tattooing than the men, probably because they had so very few ornaments. The following of such a fashion among them must have been a most painful luxury, when we consider how slow and tedious the process of tattooing must be.

Another curious custom was the hollowing of the two front teeth on the cutting edge.

Much politeness was shown in their relations with one another. Clapping of the hands in various ways was employed as the means of expressing such polite sentiments as, "Allow me," "I beg pardon," "Permit me to pass," "Thank you." This clapping of the hands was also used in making introductions and in leave-taking, and was also resorted to in assemblies when it was desirable to attract attention in debates, as in calling out, "Hear, hear!"

The chiefs were mostly friendly and provided Livingstone and his party with food, when necessary, in exchange for "a cloth," which meant two yards of unbleached cotton.

In various villages Livingstone noticed miniature huts about two feet high. These were neatly thatched and plastered. In accordance with a custom, which seemed to belong to this special section, these huts had been built on the death of a child or relative. When any special food was cooked, it was the custom to place a portion in the tiny hut, in the strong belief that it would be enjoyed by the spirit of the departed.

The people of the Mopané Forest are described as having round bulletlike heads, high cheek bones, and



STANLEY ON THE MARCH.

an upward slant to the eyes. These features, together with their snub noses, might well enable them to pass for Bushmen or Hottentots.

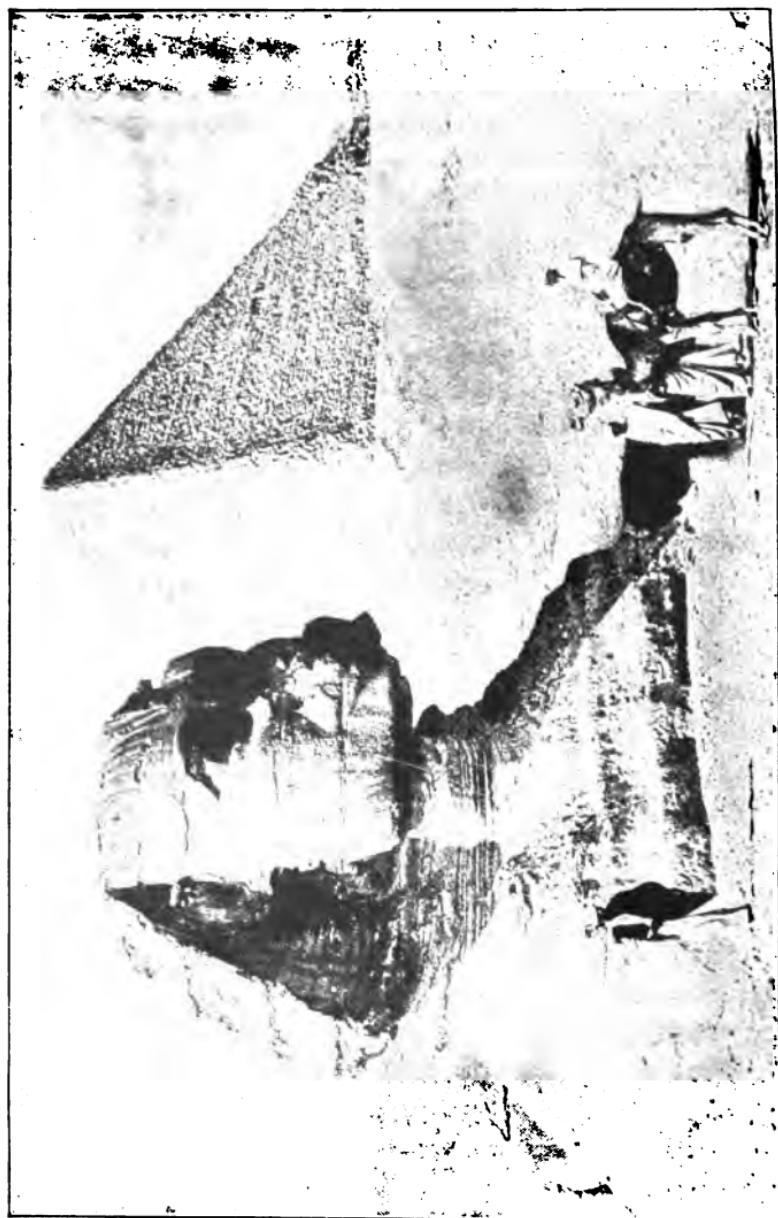
They file their teeth to points, but wear no lip ring. In dressing the hair they part it so as to let it lie in a net at the nape of the neck.

Their mode of salutation is as absurd as it is inelegant, for the men throw themselves in a half-recumbent position upon the ground, clapping the hands and making a disagreeable half-smacking sound with the lips by way of salute.

It would be interesting to follow out the story of Livingstone's life; his rescue by Stanley when nearly the whole world believed him to have perished from want and privation in some African forest; of his subsequent explorations, his death, and the transportation of his body to England and interment in Westminster Abbey.

No less interesting should we find it to follow Stanley through jungle and thicket, and in hairbreadth encounters with fierce cannibals who cried greedily, "Meat, meat! Give us meat! Ah! now we shall have meat!" whenever they caught sight of the white man. It would be a matter of interest, too, to try to solve the problem of the commercial standing of Africa in the near future.

In imagination we can picture the sad details of strife and conflict and feel our hearts throb with pity for the poor savage, as he makes his piteous appeal to the white man, "What great harm have I done? I have but sought to protect my people and the land of my fathers.



SPHINX AND PYRAMID.

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I sue only for peace and protection in this, the land of my birth."

We have only to look at the map of Africa to realize with what rapidity the leading nations of Europe are taking possession of the choicest portions of the continent. Let us trust that the opening of the country to commercial interests will mean peace, prosperity, and the blessings of civilization for the original owners of the soil ; then shall we indeed have reason to rejoice over the future of Africa.

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## CHAPTER LXXV.

### THE EMPIRE OF MOROCCO.

It is difficult, when looking at the map of Africa, to realize that the Straits of Gibraltar are all that separate it from Europe, a continent differing widely from it in every respect.

True, standing upon the northern shore, we find ourselves in a country which will recall to our minds some of the characteristics of sunny Spain. A short journey of three or four hours farther south will transport us, however, into a section where everything is new and strange.

Pleasant as we have found it to catch glimpses of Africa in our reading, interesting as we have found it to trace the footprints of travelers, we shall now find ourselves enjoying nearer and clearer views of the continent, as we approach it from the coast of Europe.

We will enter the continent from the northwestern extremity, the section known as the Empire of Morocco, called by the Arabs, "the far west."

Tangier, the small seaport at which our little steamer anchors, is situated on a small bay, or inlet, of the Straits of Gibraltar, the division line old Father Ocean has marked between Africa and Europe, and lies thirty-eight miles southwest of the town of Gibraltar.

It is with mingled feelings of awe, curiosity, and interest that we catch our first glimpses of Africa from the bridge of the little steamer which has carried us safely to within sight of shore.

The white walls of Tangier can be distinctly seen, and numerous boats are fast approaching the steamer in quest of passengers. Just behind the boats, following in their wake, a crowd of Arabs, scantily clad in tattered garments, come wading through the water, half-way to their waists.

With outstretched arms, and wild, fierce cries and gestures, they draw nearer and nearer, their actions strikingly suggestive of maniacs bent upon wanton mischief or pirates in search of plunder.

It is with no little fear that we enter one of the boats now at the steamer's side; but as we approach to within a short distance from the shore our fear becomes intensified, for the whole swarm of what we can scarcely recognize as human beings, surround the boat.

They throw themselves upon us, lay hands upon us, and, with frantic gestures and vociferous cries in Arabic and Spanish, endeavor to gain our attention. It is with a feeling of genuine relief that we finally comprehend

the meaning of the strange scene, and find that all this hubbub is to give us the information that the tide is low, that it will be impossible for the boat to approach any nearer to the shore, and that we must be carried the remaining distance upon the shoulders of these uncouth Arabs.

It is not a pleasant mode of reaching land again, but we must submit to the ordeal. It is not so unpleasant for the ladies, for they are safely carried to shore in chairs; but each gentleman considers himself very fortunate when he finally reaches *terra firma* without having dipped the soles of his feet in the water during this trip to shore, astride his queer two-footed steed.

Once safely landed, however, we begin to look about us. The people passing in the street seem to be enveloped in a long white, woolen garment or cloak. This has a large hood, which is generally brought straight up over the head.

This hooded populace passes us, with grave faces, slowly, silently, as if seeking to escape notice. Others may be found crouching along the walls of the buildings, or seated at the corners of the streets, with eyes as fixed and faces as immovable as though in a trance.

All expression of interest in the surroundings or in the affairs of the world seems to have faded from the faces of the people. They appear to be lost in meditation or sunk in day dreams, impassive to all that is going on around them.

Moving through the crowd, however, we become conscious, upon nearer view, that there is not so much uniformity as we had at first supposed. We perceive

faces of all hues,—black, white, yellow, and even bronze.

As the long, silent procession passes, we perceive old men bent and worn with age, figures shriveled and dried like Egyptian mummies, women with face and body wrapped and concealed in a mass of rags, and children with nothing childlike in face or person unless it be their long tresses. Here are people whose heads are ornamented with long tufts of wooly hair, others with heads glistening like polished ivory or metal, so closely have they been shorn of their locks.

The town of Tangier is a curious sight, with its labyrinth of narrow streets; so narrow as to be scarcely more than corridors.

Rows of white houses line these streets and present an odd appearance to the looker-on. They are usually without windows, and the narrow doorways are scarcely wide enough for a man to enter by them. They give one the impression that they belong to a prison, or possibly a house of refuge or concealment.

Occasionally a door, or even a window, is seen with some Moorish decoration. Again a band of red may be found at the foot of a wall, or a hand may be discerned painted in black upon the doorway. Such marks are superstitiously regarded as charms to keep away evil influences.

The air in the streets is very offensive. Most thoroughfares are littered with heaps of decaying vegetables, old rags, bones, feathers, and other substances, with an occasional dead dog or cat lying about. These render the air most disagreeable and unwholesome.

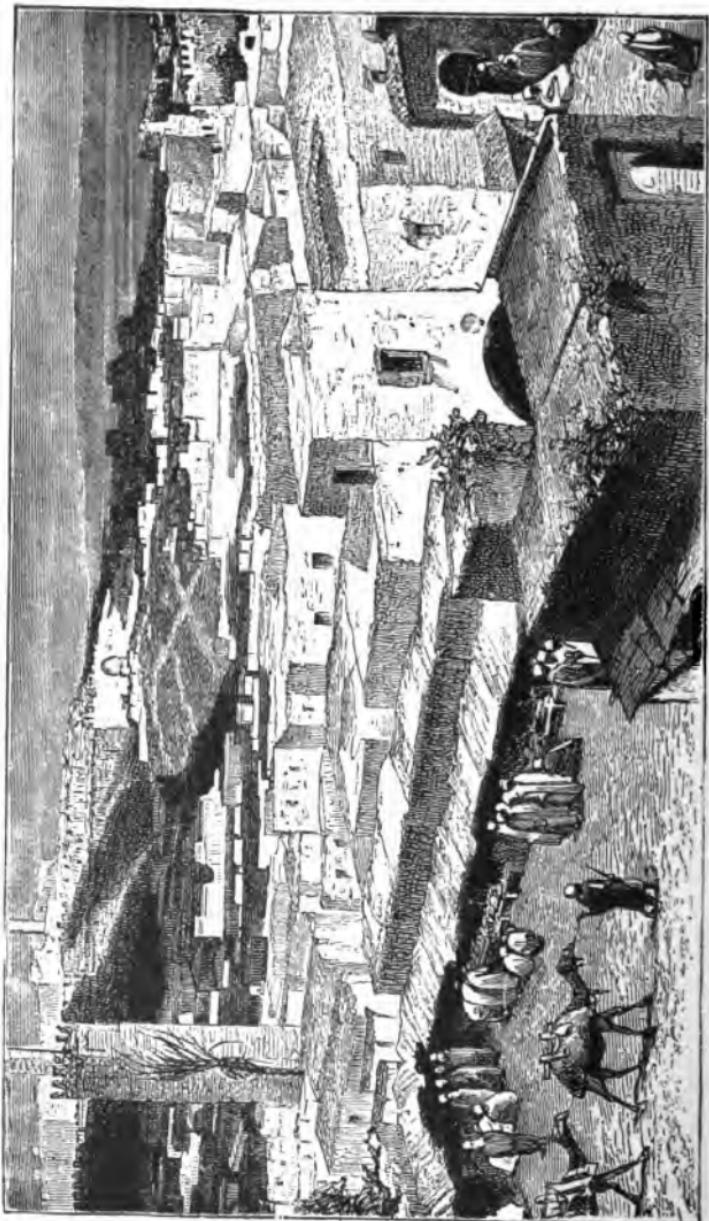
Added to this are the mingled odors of garlic, burnt aloes, benzoin, fish, and the smoke of various substances that may be burning. Here and there groups of Arab boys may be seen playing at their various games; or they may be heard chanting, in their shrill, nasal tones, verses from the Koran, which is their only schoolbook.

The scene is a varied one. Here is a wretched beggar crouching in the dust in the hope of awakening pity in the heart of the passer-by; there a Moor mounted upon a mule. Then presently an overloaded donkey comes in sight, a half-clothed Arab trotting by his side and showering heavy blows upon him in the vain attempt to urge him on to greater speed; now a half-starved dog or vagrant cat skulks by, as if in terror at the sight of man.

Tangier has one principal square. It is a small rectangular place with one long street running through it. This street ascends from the sea landing through the entire length of the town. Numerous shops are scattered about the square, which are of so simple a character that those of the humblest village in Europe would appear quite grand in comparison.

At one side of the square is a fountain, where at any hour in the day may be found knots of Arabs or groups of negroes, who have come to get water. On the other side of the street, eight or ten women, closely veiled, remain seated on the ground from early dawn till close of day, silently offering for sale the loaves of bread arranged before them.

The square is the business center of Tangier. Grouped about it are found the homes of the represen-



TANGIER.



tatives of foreign lands. Their houses are very simple, yet, contrasted with the common dingy houses of the town, they appear quite like palaces.

The aspect of business life in this little square is like that of any village center, with its single grocery store, tobacco shop, and unpretentious café. The latter is merely a humble little room, upon the walls of which various printed notices of the current topics of the day are posted.

A billiard table is one of its features, and assembled round it, or lounging about the room, is usually a motley crowd. Rich Moors idle away the hours, Jewish traders discuss their business transactions, half-clothed vagabonds look on with listless expression, Arab porters await the arrival of the steamers, employees of the foreign representatives rest during the noon hour, while various strangers, some just landed, and numerous beggars, add variety to the scene, which is as interesting as it is unique.

The Moorish shops here, as well as those of Cairo in Egypt, differ much from those of the countries in Europe. Each is built like an alcove about a foot above the level of the sidewalk. In front is an opening at which the customer stands as if before a window. The merchant, with his goods spread out before him, sits cross-legged in his narrow shop, like a statue in a niche. We are led to wonder, as we watch him, if he may not be merely of wood or stone, so immovable is he; and we almost expect to find some machinery that may set him in motion.

These merchants seem to pass hours and even days

wrapped in reverie, or mechanically touching a chaplet of beads, as they utter the words of the Koran.

A curious feature of Tangier and other cities of Morocco may often be witnessed by night. Upon the stillness of a slumbering city breaks a sound as of a distant bombardment. This soon brings to the doors and windows a crowd of people, who are at first startled, but who quickly become expectant of what is to follow.

The sound draws nearer and nearer; a surging crowd appears surrounding something shaped like a casket upon end. This is borne upon the back of a horse or camel. The flare of innumerable torches lights up the novel scene. As the procession advances slowly, a droning, plaintive sound of music is heard, accompanying a dismal, nasal chant. Shrill cries, the barking of dogs, and the sound of guns but add to the general confusion.

The curiosity of a stranger makes him keen to know the meaning of this strange scene. The explanation is simple. It is but the wedding procession of a young bride as she is being conducted to the house of her bridegroom; and the upright coffer, or casket, is but the conveyance in which she is being carried to her future home.

Many of the inhabitants use no wine, since they are followers of the Prophet Mohammed, and their faith forbids its use. In some homes this custom is not so rigidly enforced, and at the time of feasts wine is used quite freely.

The master of a Moorish house usually meets his guests in a square courtyard, found in the center of

his mansion. Two large chambers open out from this, which have no windows, but are entered through a large, arched doorway closed by a portiere or a heavy, massive curtain.

The outside walls are generally of dazzling white, the arches of the doorway are not bare of ornament, and the pavement is of beautiful mosaic work.

At intervals in the inner walls are small niches for the slippers which custom demands shall be used by all who enter a Moorish house. The tiles of the floor are often covered with beautiful Moorish rugs and carpets. On each side of the doorway are large chandeliers. These are brilliant with numerous lighted candles of various colorings. On the tables are beautiful mirrors, and masses of brilliant flowers, to add enchantment to the scene.

A stranger, upon entering one of these houses for the first time, might fancy himself looking at the interior decoration of a theatre, the ornamentation of a church, the gilded trimmings of a ballroom, or the luxuriance of a regal palace.

The grace and elegance of the appointments, the brilliant lights and coloring, add novelty and enchantment to a scene that might have been taken from the "Arabian Nights."

Leaving Tangier, we will proceed to Fez, the great metropolis of Morocco. If we wish to gain any definite knowledge of this important city of the Sultan's dominions we must by no means fail to visit it.

Fez was founded more than eight hundred years before Christ. During the Middle Ages it was con-

sidered one of the largest, handsomest, and most important of the Mohammedan cities. At that time it was the capital of Morocco, and was said to have contained ninety thousand dwellings, nearly seven hundred mosques, besides magnificent public buildings, fine schools, and scientific institutions.

About the middle of the sixteenth century the court was removed to Morocco, and Fez gradually exerted less and less influence. It is still, however, a city of importance and the capital of the northern province of the empire of Morocco.

Fez has rather a peculiar situation. It is in a tunnel-shaped valley, surrounded by hills. The higher portions of the valley are covered with a growth of trees. Orange groves and orchards are not uncommon features. The city is divided into Old and New Fez by one of the branches of the Sebu, or "river of pearls."

Fez is regarded as the *Holy City* by the western Arabs, on account of the many mosques and relics it contains. It is said still to contain one hundred mosques. The most important of these contains the monument of its builder, Sultan Muley Edris. It is sought by criminals as a place of refuge, when they are in danger of arrest. So strong is the feeling for the sanctity of the place, that no refugee is ever molested while under its roof.

The old palace of the Sultan, which still stands, is fast falling into decay since the removal of the court to Morocco.

The external aspect of Fez does not differ materially from other Mohammedan towns. There are the various

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baths and bazaars with which the eye becomes familiarized ; the numerous caravansaries, or inns, for the accommodation of the many caravans that assemble here on their way to and fro across the desert. These inns are large square buildings with open courtyards in the middle.

The multitude of hotels and shops on all sides is the only feature to remind the stranger of European cities. Fez still carries on quite a considerable trade by means of caravans, which travel into the adjoining countries on the south and east, as far as Timbuctoo.

Both Old and New Fez are surrounded by old brick walls and great towers of limestone. These are fast crumbling to pieces from exposure to the elements.

Outside of the gates of the city and for a good distance into the surrounding country may be seen traces of the foundation of a city. Everything points to its ruin by war and conflagration ; for here are seen monuments, ruined tombs, and arches of aqueducts, remnants of the past.

As we enter the city a constantly increasing crowd is seen. Men stop to look at us with an air of astonishment or curiosity ; women turn aside their faces, and try to hide themselves from our gaze ; the very children flee from us in dismay, uttering cries of fear in their flight.

On either hand we behold fountains richly ornamented in mosaic work, or doorways beautiful with arabesque decorations, characteristic of the Arabian taste, consisting of a fanciful combination of all kinds of figures of men and animals, either real or imaginary.

Here and there we behold arcades and remnants of fine Arabic architecture, all showing the destroying touch of Father Time. At intervals we plunge into dark covered passages and emerge into the light only to enter again into shadow. The principal streets, usually thronged, are only about seven feet wide. On either hand are open bazaars filled with animated buyers.

The courts of the various inns are piled high with bales of merchandise, and the entrances of the mosques present a long perspective of white arcades and the prostrate figures of the worshipers engaged in prayer.

We find the air impregnated with the varied and pen-



A WATER CARRIER AT FEZ.

trating odor of aloes and aromatic perfumes, or with the oppressive smell of incense, till it seems to us as if we were within the walls of some mammoth drug store. On every side dirt and squalor abound, and clouds of dust fill the air, so that the eyes, nose, and the lungs even, are uncomfortably affected.

The terraces on the house tops are a pleasant sight in the cool of the day. In Fez, as in other cities of the empire, these terraces are reserved for the women, and are considered rather a necessary feature of the harem, or women's apartments.

They are built high above the ground, many of them being surrounded by a wall higher than a man's head. This is pierced with loopholes, since it would be impossible to look over the top of it.

The imperial palace is a very lofty edifice built upon an eminence. The view from the top of it discloses thousands of white terraces. From the palace there is also a fine view of the hills encircling the city and of the mountains towering in the distance.

It is interesting to catch a glimpse of the Moorish women upon the terraced house tops, many of which have parapets, or walls, breast high, to surround them. Most of the women are richly dressed, and may be seen strolling backwards and forwards, or seated upon the parapets. Some of the younger ones amuse themselves by leaping like children from one terrace to another; they play at hide and seek, or laughingly splash water in one another's faces, as merry as children. Others appear older and more sedate, and mingling with them may be seen groups of children of eight or ten years of age.

The greater part of these Moorish women wear the hair flowing loosely over the shoulders. A large red or green handkerchief is bound around the head to keep the hair in place.

The dress most commonly seen is a loosely flowing robe of varied and brilliant coloring. It has very large flowing sleeves, and is fastened about the waist by a blue or red sash. A jacket, open at the chest, large, full trousers, yellow slippers, and heavy silver anklets complete this curious yet attractive costume. All are arrayed in oriental costumes of the most vivid coloring.

Many of the Moorish women are considered very beautiful, with their almond-shaped eyes veiled by long lashes, a slightly curved nose, and small, rounded mouth; but to our eyes their faces lack animation. The eyes are heavy and sleepy looking, and the rouge, powder, and various cosmetics which they employ when making their toilet render them hideous rather than beautiful in the eyes of practical Americans.

Living as they do in the closest seclusion, with no social nor educational advantages, we cannot wonder that their minds are undeveloped and inactive, and that life at best in the Moorish household, is, for its women, monotonous and dull.

Leaving the city of Fez in the company of a caravan, we reach the capital of Morocco after several days and nights of travel and of camping out.

The city of Morocco stands on a plain and is surrounded by walls six miles in circumference, with square towers one hundred and fifty feet apart rising from

them. These walls are built of a kind of cement made from finely powdered lime and earth. Eleven gates, or entrances, pierce these walls, and crowds of people are coming and going constantly through them during the day.

Morocco cannot be said to be a very brilliant capital. The streets are narrow and dark, and a stranger would not care to wander through them at night. The houses, like those in other parts of the empire, are mostly of one story, with flat roofs. The interior is more attractive than the exterior. The apartments are usually built around a court; within this court a fountain or a statue forms the center of attraction.

The apartments themselves are furnished elaborately, and would seem almost elegant in their appointments, were they fresher and less dilapidated. In many of the houses are rich carvings of a style and finish of earlier and more prosperous times.

Just outside the city walls is the emperor's palace. The grounds surrounding it are very extensive and are kept in excellent order. Although the gardens can in no way be compared with the royal gardens in Europe, yet they do not lack beauty. They cannot be considered as open to the public, yet travelers are admitted to certain parts of them, and Europeans receive marked attention from the officials.

After the heat and noise, to say nothing of the disagreeable odors of the city, it is a relief to get outside the walls and enjoy the beauty and sweetness of the royal gardens. Here in the cool and quiet is the best place from which to view the royal family, the various



DINNER TIME IN MOROCCO

officers of state, and such distinguished guests as may be in attendance on the court.

The palace of the emperor is far from imposing; there is, in fact, nothing remarkable about it. Some of our hotels present a more elegant and imposing appearance.

The population of Morocco is, as we might suppose, a mixed one. People of all colors, the educated and the ignorant of all classes mingle together. Here, in fact, are all sorts and conditions of men.

Mekinez is the summer residence of the Sultan. It has a fine situation in the midst of olive plantations, about forty miles west of Fez, to which broad streets, lined with beautiful shade trees, present a very pleasing contrast. It is surrounded by a triple row of notched or crenated walls, and the approach to the city in the full light of midday is most beautiful, with the thousands of white terraces standing out in bold relief from the deep blue sky.

Not a column of smoke can we perceive ascending from any of the multitude of houses; not a person is visible either upon the terraces or before the walks; not a sound is to be heard.

We might believe we were in an enchanted city where some "sleeping beauty" lay waiting for the hundred years to expire. We stand in silence, as if spellbound by the grandeur of some wondrous painting.

There is a saying, among the natives, that Mekinez can justly lay claim to having the most beautiful women in the empire of Morocco, the most orna-

mental gardens in Africa, and the finest imperial in the world.

Directly west of the city of Morocco and farther south than Mekinez lies Mogadore, the most important seaport of Morocco upon the Atlantic coast. The inhabitants, who take great pride in their town, give it a name signifying square. It is, however, somewhat triangular in shape.

The town is quite modern in its construction. It is built upon a sandy beach; which, fortunately, has a rocky foundation. The streets are somewhat narrow, but they are straight and well laid out. The houses are arranged with much regularity and precision on either side.

The town is divided into two parts. One section contains the citadel, the public buildings, governor's palace, and the residences of the consuls and merchants who represent the several countries of Europe. The other section of the town is occupied by the Jews and Moors. The Moors have their own special quarter, called *villah*, which the police close at night.

The walls of the town are not especially high nor strong. They are, however, of sufficient height and strength to serve as a defense against the attacks of the savage mountain tribes and the Arabs of the plains.

The harbor of Mogadore is formed by a bay, which is closed by an island of the same name situated about two miles from the mainland. The harbor contains some slight fortifications and a mosque—all situated upon this island.

It has been estimated that the town of Mogadore has

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a population numbering between thirteen and fifteen thousand people. About four thousand of these are Jews, and there are possibly one thousand Christians.

If we approach the town from the interior it presents a most curious aspect, surrounded as it is by immense batteries in the form of pyramids. Each of these is constructed in such a way as to serve as a defense to the approaches to the city. An aqueduct, which is filled from a small river, furnishes the water supply for the inhabitants.

The climate of the town is very healthy. There are no lowlands nor marshes to breed malarial fevers. Rain seldom falls, but the dryness of the air is tempered by the Atlas mountain chain on the one side, and the sea on the other. The former serves to keep off the hot land breezes, while the latter lends its refreshing breezes to give coolness and moisture to the atmosphere.

The suburbs of Mogadore consist mainly of desolate waste land. At intervals gardens with a few vegetables and flowers may be seen. These gardens are always cultivated in the very midst of the sand at no little outlay of time and strength. They furnish striking evidence of man's ingenuity to make the most of his resources, even in so sterile a land.

At one side of the town are two cemeteries; one for Christians, the other for natives. That for Christians is desolate in the extreme. Not a sod, nor even the most humble flower is to be seen; not a tree shades the tombs. The mournful winds of Old Ocean sweep over its expanse, and it seems indeed forsaken; but, dreary as it is, the Moorish cemetery is even more unattractive.

## CHAPTER LXXVI.

## INTO ALGERIA.

Striking off from the empire of Morocco, as we journey eastward into Algeria we come to the town of Tlemcen. A passing glance at the town is, at first, very pleasing. A triple row of fine trees, such as the white poplar, the plane tree, the acacia, the nettle tree, and a species of tree the foliage of which is so thick that no sunbeam can ever penetrate it, lines the avenue of Méchonar, which leads to the gate of Bon Medina. At the left can be seen the old walls of Méchonar, which was the citadel of the town. At the right the eye beholds a scene strongly in contrast, for the houses, with possibly a few exceptions, are squalid in the extreme.

It is impossible to enter the town except from the southwest; as all other approaches to it present steep and rugged sides. The district about it abounds in fruit trees of all descriptions. The olive tree is the most valuable among them. Much of the land is cultivated for the production of cereals, tobacco, etc.

Tlemcen is the capital of the province of Oran. It is situated some eighty miles from its chief town, Oran, and enjoys a delightful situation in an undulating country under a thorough system of irrigation and cultivation. A range of hills, some four thousand or more feet in height, protects it from the south wind sweeping up from the desert sections.

The climate of the town is somewhat remarkable for its sudden changes in temperature, which are as distinct

from day to day as are the changes of our climate from season to season. Sometimes they come in rapid succession, even in a single day, during the summer season.

Rain falls in abundance. The rainy season begins usually in October and continues, with occasional periods of fine weather, until the following May or June. The spring rains and the frequency of morning fogs render the vegetation so luxuriant as to astonish the traveler, even in the heat of the summer. After journeying through districts where the vegetation is parched and withered by the heat of June, the freshness of the verdure around Tlemcen cannot fail to delight as well as surprise the stranger.

The town rarely feels the effect of the sirocco, or wind from the south, and never longer than for two or three days in succession. Thunder is occasionally heard in winter or in the spring, and sometimes at the close of an unusually sultry day. When storms come they pass rapidly, for strong currents of air draw them away, usually towards the southeast.

Although apparently enjoying so many advantages, yet the town cannot be said to be very beautiful, when once we are within its walls. The quarters of the natives are hideous. Often they are scarcely more than ruins. In fact, it is no uncommon thing to find the most wretched buildings constructed out of the remnants of larger ones.

The interior of nearly all the native houses is squalid and destitute of all comfort. Usually a mat serves the purpose of a bed. A painted wooden chest, containing

a few garments of wearing apparel and a scanty supply of linen, serves the double purpose of a closet and a table or seat, as may be needed. A few articles for the kitchen, a chafing dish of earthenware, and some wooden plates made from the poplar tree, complete the articles of household furniture.

The Jews, though much more crowded in their quarters than we should think admitted of comfort for their families of numerous boys and girls, furnish their homes much more comfortably than the natives do.

The natives are divided into two distinct classes very hostile to each other. On account of this hostile spirit the French have been able to maintain a strong hold upon the country.

Many of the people have Turkish fathers and Arab mothers, and constitute an oppressed and despised class. The French have protected them from direct persecution, and this has made them not only very grateful but very loyal to these foreigners, whom they even aid by joining their military forces in time of need.

They are generally tall in stature and vigorous in body, and are more cleanly and careful in their dress than their rivals, and more industrious. Through their labor the fine gardens of the town are kept green. They keep the provision and butcher shops, and as they speak both French and Spanish they easily compete with the foreign tradesmen.

Their rivals, the Haddans, are of pure Arab blood, and in their poverty and indolence are far inferior to their ancestors, who were rather an energetic race. Their bronze complexions and black hair offer a strong

contrast to the white complexions and usually fair hair of the despised half-breeds.

The Israelites are very numerous in Tlemcen. During the persecution of the Jews in the fifteenth century, many of them fled into Algeria and took refuge mainly in the province of Oran.

About the middle of the present century the Kabyles, a sturdy race of mountaineers descended from the ancient Numidians, broke out into decided hostilities against the French. Although they displayed much of the fierce, dauntless spirit of their ancestors, they were speedily quelled.

The work of conquering, colonizing, and, in a measure, civilizing Algeria, went on; while the French troops, penetrating into the remote south, almost to the borders of the Sahara, soon subdued the desert tribes, in spite of their bold resistance.

During the latter half of the present century the French government has given a great deal of attention to Algeria. Unfortunately, the French have not the reputation of making very good colonists.

The Kabyles, who occupy the mountainous section between Algiers and Constantine, were originally strong and powerful tribes, numbering one hundred and fifty thousand fighting men, all deadly foes of the French. Most of them have been subdued, though not without a long, sanguinary struggle.

The Kabyles are the most intelligent and the most industrious of all the Algerian tribes. Not an inch of ground capable of cultivation is allowed to go to waste. The carpets they manufacture are of superb beauty.

Their woolens almost equal those of the English manufacturers in their excellence. Their gunpowder is of so superior a quality that the French for a long time believed it to be of English manufacture.

With the exception of a few Kabyle districts that struggle to maintain an independence of the French government, the whole of Algeria is now so much in subjection that it is perfectly safe to travel through any part of it without fear of being molested.

Among the benefits that have come through the colonization of Algeria, the system of artesian well digging is, by far, the most important. By means of irrigation, many barren and waste lands have been reclaimed and made extremely fertile.

About the middle of the present century, boring was begun in an oasis of the Sahara, within a desert section of the province of Constantine. A splendid fountain of water, yielding at the rate of over four thousand quarts a minute, at a temperature of seventy degrees, was the result. The native priests blessed it, and named it "The Fountain of Peace." Another of these artesian wells was called "The Fountain of Benediction."

In the desert of Sidi-Rached, a region wholly unproductive, owing to lack of water, a well was dug to a depth of a little more than fifty-four meters, which yielded over four thousand quarts a minute. This well is known as "The Fountain of Gratitude." The greatest excitement was shown when it was opened. The Arabs ran in crowds to the spot, and bathed themselves in the welcome stream; mothers dipped their little ones in it, while the aged priest fell upon his knees, wept, and



in broken words of gratitude gave thanks to God, and to the French to whom such knowledge and power had been given.

In some places these artesian wells have been made the centers of settlements, by tribes which formerly were nomadic, or wandering. Around what may be termed "wellsprings of joy," villages have been constructed, and date trees have been planted in their vicinity.

Through so simple an agent as these artesian wells, the wandering habits of the tribes have been changed, and obedience and allegiance to French rule have in a measure been established. With feelings of gratitude these tribes recognize the blessing of a plentiful supply of pure water, and render thanks to those who have unlocked the storehouses of nature.

The oases, or fertile regions, which owe their existence to the digging of artesian wells, are usually surrounded by walls, which serve the purpose of fortifications. Such fortified places are used as storehouses and magazines by wandering tribes, who leave their grain crops and other goods in security, while they travel long distances in search of fresh pasturage for their immense flocks.

The Kabyles are not Arabs, but are descendants of the original African possessors of the soil, the Berbers. It is an interesting sight on a bright spring morning to watch the footpaths that lead to some popular Kabyle market. All along the roadside, under the foliage of the trees, or fording the shallow places in the rivers, swarms of these natives may be seen on their way to market.

The father of a family, with the younger children perched upon his shoulders, usually leads the way. His wife follows, leading the older children, while the mules, donkeys, and sheep with their drivers follow in a long procession.

Sometimes the wife, if young and easily fatigued, is allowed to ride upon the back of one of the donkeys. This is, however, a rare thoughtfulness on the part of the husband. Usually he thinks nothing of allowing his wife to find her way through streams where the water reaches above the knees even in the shallow places.

The Kabyle villages present a gay festive appearance, if viewed from a distance. A closer inspection is disenchanting, for it reveals the dirt, squalor, and disorder characteristic of the daily life of the natives, and which cannot fail to impress the traveler unpleasantly.

The houses are packed closely together on unpaved streets, so narrow that should two persons attempt to pass each other, one of them would be obliged to step to one side.

Small courts lead to the entrances of one or more of the squalid dwellings, which have but one room on the ground floor, with no opening other than the low doorway. The fireplace is merely a hole dug out in the floor. No chimney, however, is provided to carry off the smoke.

It is indeed hard to choose between the stifling, smoky atmosphere of one of these dwellings and that in the narrow streets impregnated with the vilest odors arising from all kinds of filth and rubbish lying about.

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In some of the villages it is no uncommon thing to find nine or ten persons living in the one room of the house with the various domestic animals. In such a room the floor is of earth. It is unpaved, soiled with dirt, and littered with rubbish. A mat is rarely seen on such a floor, which has to serve as the only sleeping place for the members of the family. A bed is an unheard-of luxury.

The garments worn by the Kabyles are dirty, greasy, and ragged. Their food is coarse, and not always sufficient for the needs of the body.

When death enters the household, little change is made in the habits of the family. The body of the dead person is stretched out upon the dirty, bare floor. Sometimes a cloth or rug is thrown over it. The neighbors are then called into the house of mourning and crouch in a circle around the body, while the mild-eyed cattle, as they quietly chew their cud, look on in contemplative wonder.

During the struggle with the French, many of these tribes of the mountains were in the habit of seeking refuge with their flocks and treasures in the caves of the vicinity. On one occasion, a tribe, when hotly pursued by the French, took refuge in one of these immense caves. The colonel of the French troops ordered the refugees to surrender their firearms and horses, promising life and liberty. The offer was scornfully rejected by the Kabyles, who set at work to collect fagots, which they placed at the entrance of the cave and then ignited.

Three different times the French colonel sent a flag

of truce and begged the imprisoned natives to surrender and accept the terms offered, but without avail. The last messenger was met by a discharge of firearms by the dauntless mountaineers. The fire was then rekindled and the intrepid Kabyles met their death in what had proved a prison rather than a refuge.

Later, when the cave was examined, some six hundred dead bodies were found. Counting those natives who, though alive, did not long survive, and those who could not be reached, it has been roughly estimated that about eight hundred must have perished. Some had been suffocated, others trampled to death by the maddened cattle which had been confined in the cave with their owners.

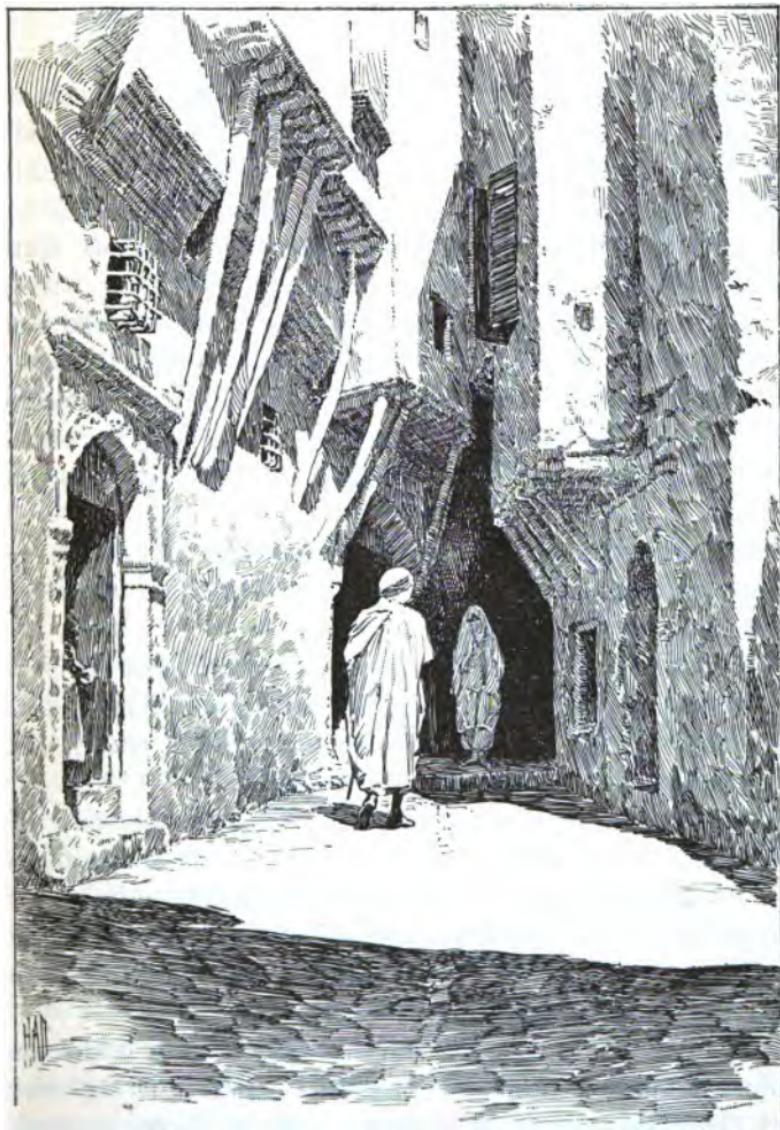
The capital of Algeria is Algiers. It was built some nine hundred years before Christ. An Arab chief was its founder. It rises from the sea coast up the sides of a bald, rugged hill.

Viewed from a distance the city is somewhat like a triangle in shape. The apex of the triangle is occupied by an ancient fortress. It stands five hundred feet above sea level and commands the whole city.

The modern part of the city is built lower down. On the side facing the sea it has a strong fortification, which the French have improved at a great expense.

It has been estimated that Algiers has a population of between fifty and sixty thousand people.

Oran and Constantine are both situated upon the sea coast. The former is a strongly fortified town upon the west. It is quite Europeanlike in appearance. Its seaport, about five miles to the north, is said to have



STREET IN ALGIERS.

one of the finest harbors on the northern coast of Africa.

Constantine has a strikingly picturesque situation in the east. It stands on the summit of a gigantic mass of grayish white limestone, with precipitous sides. To add to the grandeur of the picture, the foaming waters of the Wed Rummel dash against three sides of this limestone mass, as if seeking to overthrow it.

The town and the immediate neighborhood abound in the ruins of ancient Roman structures. The very walls which surround and fortify the town were built by the Arabs from stones sculptured by the Romans. On one side is a fine old Roman bridge spanning a ravine.

In ancient times Constantine was one of the most important towns of Numidia; for a long time it was a residence for the royalty.

About three hundred years before Christ it was destroyed in the wars of Maxentius against Alexander. It was, however, soon rebuilt by Constantine the Great, and derived its present name from him.

The palace of Constantine is the most interesting of all the public monuments of Algeria, both on account of its antiquity and its special architecture. It is not imposing in its character, nor has it any finely finished details of very rare merit; neither can it be said to be perfectly harmonious in its structure.

If we compare it with the other magnificent buildings of the Turkish reign, we shall find that it is superior to them because of its elegant and handsome proportions. Its interior decorations, too, display all the

beauty and luxuriance of the most modern productions of the Algerines.

It was captured about 1830, and now constitutes the headquarters of the commanding general of the province of Constantine. One of the most striking apartments is known as the Saloon of Trophies, which is entered from the grand reception saloon by means of a door at the side. The room presents a delightful view. The rafters of the ceiling are supported by three slender columns of marble, which are most beautifully carved, and twisted into spirals. To add to the unique character of the ceiling, various colored lanterns of handsome form, as well as two beautiful glass chandeliers of ancient Italian style, are suspended from it.

About midway in the apartment is an alcove surrounded with luxurious divans. At the right and left are panels, with magnificent mirrors mounted in beautifully carved woodwork.

The side walls of the room are completely covered with rose work of the most brilliant coloring. The floors, and the walls between the windows, are finished with varnished tiles. The windows are protected by double shutters. These are most attractive in appearance, being decorated with mirrors on the interior, and beautiful rich carvings in cedar wood on the exterior.

A most curious piece of ancient furniture is found in this room. It consists of a candle stand in the form of an egg cup bearing an ostrich egg. The stand is of gilded bronze. It has three branches, or arms, to hold the candles. This stand is believed to have belonged to the daughter of the Turkish ruler who constructed the

palace. The Saloon of Trophies is said to have been her apartment.

The room derives its present name from the large collection of flags and arms, trophies of war, which decorate the walls. They serve to commemorate the various expeditions and war feats of the conquerors in the province of Constantine.

Here may be found guns, sabres, and pistols, of the most varied descriptions. Many of them are surmounted by the curious red, yellow, or green silk banners under which the Turks have fought against all invaders of their territory or disturbers of their religious faith and customs.

The court of the palace bears the name of the Court of the Genii, suggestive of tales from the "Arabian Nights." It is surrounded by five pointed arches on each side. It occupies a somewhat secluded space, and in ancient times served as a great basin, or reservoir, in which the women of the royal household were accustomed to bathe.

In this reservoir was a fountain, the waters of which fell back into a tier of basins, varying in size. On the edges of these basins, beautiful rose work and intertwining foliage had been carved by a skillful artist, who with the cunning of his art had closely imitated nature.

The waters of the reservoir were filled with fish, which were the special care of the ladies of the royal household.

On one side of the court a staircase led down into a vaulted chamber underneath the palace. Here were

situated Moorish baths arranged exclusively for the royal household.

It was the custom each day to transport to the palace immense water bags made of oxhide. These were filled from the river, which flowed at the foot of the hill, and transported to the palace upon the backs of mules. The water was first poured into a sort of conduit. Pipes of pottery extending from it conducted the stream into the interior of the palace.

Chambers in which the bathers could repose were built over the baths. In one of these chambers was an immense bird cage in which nightingales, finches, parrots, canaries, and various other species were kept for the pleasure and amusement of the royal ladies.

When the French took possession of Algeria, the royal family fled from their palatial residence, many escaping through a hole in the wall, and these baths came into the possession of the conquerors.

Early in the present century, the name Algiers terrified every schoolboy who read of the evil deeds of the pirates, whose business it was to roam over the seas for plunder from foreign vessels.

Many a brave man lost his life trying to save his vessel from surrender, while his crew was mercilessly cut down by the sabres of the infuriated pirates, who were determined to capture the prize at any cost.

Sometimes, forced to surrender, the hapless captain and his crew were conveyed in their vessel to Algiers, and thrust into dark and loathsome dungeons, where life became one long torture.

The confiscated vessel was then employed as a decoy,

or painted over so as not to be recognized on the high seas by the crews of other vessels sailing from the same country.

So desperate were these pirates that, if they saw no chance of securing a vessel, they did not hesitate to scuttle it, and to leave the crew to find a watery grave, as it sank beneath the waves.

Early in the present century, the English nation sent out a fleet to bombard Algiers. Then the French nation, in turn, sent its fleets to wage war against the Algerine pirates, whose name had become a terror, and whose deeds were notorious throughout the commercial world.

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## CHAPTER LXXVII.

### THE STATE OF TUNIS.

Tunis is the smallest and most easterly of the Barbary States.

Ancient Carthage included within its territories those of the modern state of Tunis. The ruins of the ancient city may be found about thirteen miles northeast of the walled city of Tunis.

Nothing remains now of the ancient capital but scattered piles of stones and two crumbling arcades, which, in the course of ages, have yielded to the force of the elements.

Tunis, which is the political capital of the state, is situated upon the Mediterranean Sea. It is located at

the extreme end of a lagoon some twelve miles in circumference. It is connected with the Bay of Tunis by the narrow channel of Goletta. At the mouth of this channel is a little town bearing the same name. Goletta is really the port of Tunis.

The city of Tunis is divided into an upper and a lower part. The upper section is occupied by the Mohammedans. The lower section, as well as the suburbs, is occupied by the Italians, Maltese, French, and Jews.

The streets of the city are narrow and exceedingly dirty. Modern civilization seems to have done little in the way of improving their sanitary conditions.

At Tunis is situated the palace of the *bey*, or Turkish ruler. There is nothing remarkable about its exterior, but the interior is furnished with all the luxuriance of the Moorish style. This palace is used as a residence for distinguished foreigners. The *bey* has his residence at El-mersa, which is situated on the sea coast about three leagues from the city.

About two miles northwest of the city of Tunis stands an immense building, the Bardo, with many towers and projections. It is the official seat of government. The state prisons, the garrison, the military school, and an entire street of shops, are included within the government grounds.

The city is connected by rail with several of the other chief towns in the neighborhood. The principal railway, which belongs to a French company, runs from Tunis to the Algerian frontier.

The trade with different ports of Europe, principally with Marseilles, Genoa, and Leghorn, consists in ex-

porting the productions of inner Africa. Not only Tunis and its seaport Goletta, but also Susa and Sfaks upon the east coast, are concerned in this trade with Europe. The latter port is connected by telegraph with the capital.

Besides its political capital, the state has its spiritual capital, Kairwan. It lies about seventy-five miles south of Tunis in a barren plain and is regarded as one of the sacred cities of Islam. At one time neither a Jew nor a Christian could have his residence there.

The manufactures of the state of Tunis are mostly woolen fabrics. These consist of the burnoses, or Arab mantles, and the peculiar red caps, familiar all along the Mediterranean. Soap, earthenware and the famous Morocco leather are among the manufactures.

Two kinds of alcoholic beverages are made by the people. They are held in great esteem, since the Koran does not forbid Mohammedans to use them. One of these drinks is made from dates ; the other from the Indian fig.

Some of the products of the sea coast of Tunis are quite valuable, as coral and sponge. Salt is also obtained. In various parts of the mountains, lead ore and quicksilver are known to exist. Deposits of saltpeter are found in the plateau of Kairwan.

The government of the state is despotic. The ruler bears the title *bey*. In the spring of 1881 the French invaded the state to punish the Berber inhabitants of the mountains in the extreme northwest, because they had invaded French territory. This invasion by the Berbers was made the pretext to compel the *bey* to

accept a treaty making the French rule supreme in Tunis.

The inhabitants are, generally speaking, of good figure. The men are rather spare and sinewy. The women are considered very beautiful. When they are young they have a bright color, clear complexion, and large, expressive eyes. Their hair, which is usually of a blue-black color, is allowed to float freely over the shoulders.

In Tunis, as in other Oriental countries, flesh is considered a mark of beauty. It is said that the Moorish ladies have a recipe for becoming fleshy which never fails — to eat freely of young dogs.

The women of the wealthy classes decorate themselves with a profusion of gold and silver ornaments, and carry about with them small mirrors and scent-boxes. They adorn themselves, too, with precious stones, chains, and corals. The poorer women of the Arab populace load themselves down with strings of glass beads, and copper jewelry.

The Arab children when but a few days old have a skin almost as white as a European's, though rather a dull white. Exposure to the sun soon tans the skin, little by little, to a brownish hue. This is by no means unpleasing to the eye.

The Jewish women of Tunis have a very different costume from that of the women of Algeria and Morocco. It is strikingly original and of the most brilliant coloring. Tradition identifies it with the old Hebrew costume of Scriptural times.

Its peculiar features are a pointed cap set upon the

head, and a very loose jacket, which falls a little below the waist, and which is often ornamented with the richest of embroidery. A close-fitting pair of stockings to cover the legs, and peculiar slippers or Hessian boots decorated with tassels, complete the quaint costume.

The Jewish men wear a costume much more like that of the Turks, except that their full, loose trousers do not fall much below the knee.

The women of the Turkish households in Tunis, as well as in all Mohammedan countries, are regarded more as pets and favorites than as the companions and helpmates which they are in American and European households. Their homes are like gilded cages, for the inmates can leave them only by permission of the head of the household. Even when allowed to go upon the street, they are always heavily veiled from observation.

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## CHAPTER LXXVIII.

### THE PROVINCE OF TRIPOLI.

If we leave the port of Tunis on one of the little Maltese schooners, we can, after a sail of some forty-eight hours with a favorable wind, easily discern the walls of Tripoli rising out of the sea from the low, rocky tongue of land in the western extremity of the province.

The coast line is so low that we have been able to see it only upon very near approach to shore. The moun-

tains of the interior, however, were discernible even at a distance of ten miles from shore, and our pilot has not hesitated to use them as safe landmarks by which to direct the course of our little vessel.

As we approach the coast it is seen as a more distinct line above the waves. Gradually it assumes the form of a long crescent, the white walls of the town rising from the center.

The eastern point of the crescent-shaped shore is overgrown with a dense grove of palm trees, which stand like troops protecting the coast, even to the water's edge, by what seems like an advance guard. The western point of the crescent is but a stretch of the yellow sands of the desert, with here and there a stunted growth to break the monotony.

A small gulf forms the harbor of the town. Across the front of this gulf a reef of low rocks serves as a foundation for a natural breakwater. One would think that it would be an easy matter to add to nature's work and make this feature of valuable service to the harbor; but the indolent Arabs have contented themselves with throwing out a frail rampart for a short distance from the shore.

Doubtless this rampart was made upon foundations laid by the Romans. On it some rusty cannon are mounted, as if to recall the glory of departed days, when the power of this kingdom, with its piratical character, struck terror to all the European nations whose vessels plowed the seas. Like Algiers, Tripoli was, in past ages, notorious for its piracy.

As far back as the middle of the sixteenth century, a

governor of the province, a noted corsair himself, encouraged piracy to such an extent that the town of Tripoli had become the headquarters of the worst class of men that had ever sailed the seas. All commerce was at the mercy of these men, who were hated as much as they were feared.

This condition of affairs had continued until the beginning of the present century, when the English compelled the Tripolitans to abandon their infamous doings upon the seas. Hence, in Tripoli, as in Algiers, piracy is at an end. Thanks to war ships, we can rejoice that the black flag, the skull and crossbones, the clipper ships that carried them, and the dastardly crews that manned these pirate crafts are all things of the past.

Tripoli, like all the cities of the Orient, is beautiful, if seen from a distance; approach to it is sure to be very disenchanting to the traveler. Let him once step foot upon the little quay, built of masonry, gayly striped in green, yellow, blue, and red, and all poetic fancies leave his mind, as his eyes and nose are greeted with the most disenchanting, yet striking, sights and smells.

As he passes through the little gate of the fishers he emerges into a perfect labyrinth of narrow, irregular streets, far more dirty than any imagination could picture. These streets are lined with the most miserable little shops and old houses crumbling to ruins, and are littered on all sides with dirt of every description.

Only on rare occasions has the town known any spasmodic attempts at cleanliness. Such an occasion offers itself whenever a new pasha arrives from Con-

stantine to assume official duties and issues an eloquent appeal to the people to cultivate cleanliness.

A spirit of emulation seems then to possess the people. Each person tries to outdo his neighbor. The proprietor of each little shop cleans away all dirt from his house and premises and carefully places it in a little heap in the street, to be removed to a place outside the town limits. Alas! the removal of the garbage is postponed indefinitely, the piles of dirt and waste increase in size, and are finally scattered to the four winds, and the old state of dirt and filth prevails.

Most of the houses are united to one another every few rods by arches of masonry. After heavy rains these supports have to be strengthened by rafters. In spite of these precautions many houses tumble to pieces in the course of a single year. It is hard to assign a cause for this. Possibly it may be due to the poor quality of the lime used in building, to the brackish nature of the water, or to the inferior quality of the building stone, which is merely a compressed sand.

It is a curious fact that houses rarely last more than a year without showing signs of decay. This condition of things discourages architects and builders. Hence, few handsome edifices and buildings are seen, if we except those of a few Europeans, the buildings of the consul, the convent of the mission, and a few others.

The houses are low, usually of one story, and their flat roofs do not add to the apparent height of the buildings. The arrangement of the houses is about the same in all cases. There is a square court, around which extends a covered gallery, supported by slender columns.

Long narrow rooms, generally in the form of a Latin cross with the foot wanting, lead from this gallery. At right angles to these narrow rooms, or more strictly speaking, corridors, are two larger rooms which open from them. These several apartments are separated from each other by draperies or portières.

The section of Tripoli which lies nearest to the quay is populated by Christians, who have grouped their dwellings around the two or three churches of the town. The Jews occupy the western section of the town, which is, if possible, more unsanitary than the others.

Still, Tripoli is not without interest; for, both within and without its walls, we find not only beautiful gardens but manufactories for leather, carpets, scarfs, and the like.

From Tripoli we can watch the departure of the great caravans for the Sahara on their way to Timbuctoo, Bornoo, and other points, to obtain the products of the Soudan. This overland trade we shall find, however, has to a great extent decreased in recent years. The town of Tripoli may well be considered the center of a large agricultural population. Here the native men of wealth, or capitalists, increase their revenues by acting as money lenders to the peasantry, who of course have to pay high rates of interest for the loans.

It is interesting to notice that in no other section of North Africa does the Great Desert approach so closely to the sea as in the province of Tripoli. The Atlas chain of mountains, which, so far, has served as a protection to the Mediterranean shore from the shifting sands of the desert, here dwindle away to a low ridge of

hills, and finally disappears entirely in the little Gulf of Systa, which lies west of the town of Tripoli.

On this gulf is the natural seaport of the Soudan, from which, according to Dr. Barth, opens the easiest route to the center of the continent.

The boundaries of the province of Tripoli can hardly be said to be definitely fixed. By some writers the whole area, including Fezzan and Barca, has been estimated at four hundred thousand square miles. Some writers include the oasis of Kufra, east of Fezzan; others declare it to be independent. The total population of the province is estimated at upwards of one million. Of this number about three hundred thousand belong to Barca.

Strange to say, the coast line, stretching as it does over a distance of between seven and eight hundred miles, has only one harbor, that of the town of Tripoli.

The eastern part of the interior is really a continuation of the Great Desert, and has the same general character; hence, large tracts of barren sand are common. The southern portion of the province is partly crossed by the Black Mountains, an eastern range of the Atlas. These slope away into successive terraces, which include many valleys and fertile plains. Off to the west, the surface of the country shows still greater variety; here the scenery is often beautiful and grand.

By far the richest tract in the whole province of Tripoli is Mesheea. This has a stretch of about fifteen miles of coast line. Its width, however, does not exceed five miles. Its capital is situated very nearly in the center of the district.

The whole district of Mesheea is covered with fertile fields producing wheat, barley, millet, Indian corn, together with madder, saffron, and other crops. Olive groves, vineyards, and orchards producing all kinds of southern fruit, abound.

This fertile little district is divided into small inclosures. In the center of each of them are two upright piles of mason-work. Between them a pulley is suspended, and on this a pointed leathern bucket is made to ascend and descend. Each time the bucket ascends it gives out a stream of limpid water.

The pulley is worked, usually, by a half-clothed negro, who leads a most disconsolate-looking specimen of an ox or cow, as he toils up and down an inclined plane, the lowest part of which is below the surface of the land.

All day and all night this work goes on, from the end of one rainy season till the beginning of the next. During these eight months all the gardens are like so many basins, which are under a regulated system of inundation.

Another curious custom prevails at the season when the sap begins to ascend in the date palm. A man begins to mount one of these trees, aided only by his naked feet and a girdle which holds him to the trunk.

Slowly, steadily, he mounts till he reaches the crown, where the branches spread out. He does not scruple to cut these off until only four remain, stretching out as if to indicate the points of the compass.

Over one of these branches, where it joins the trunk, he passes a fine cord and allows the two ends to reach



the ground. He then wounds the tree by making a deep incision between two of the cuts where he chopped off the branches.

Making a descent from the tree, he sends up a bucket by means of the cord, and allows it to hang suspended just under the deep incision he has made. After a space of twelve hours, this bucket is brought down and another is sent up. The former is filled with a pale gray liquid, not quite clear in appearance. It looks much like barley water, is slightly sweet in taste, and is used as we would use mineral waters.

Exposure to the atmosphere for some hours changes the appearance of the liquid. Bubbles rise to the surface, and under this slight fermentation, travelers tell us, it becomes a refreshing beverage, somewhat like soda water.

Left to stand half a day longer, the harmless beverage changes to a thick milk-white fluid with a pungent odor and a slightly acid taste. Worse than all, it has become an intoxicating drink, as evil in its effects as brandy.

It is at this stage that the natives prefer it, and the most rigid Mohammedan, who would shrink with horror at the thought of taking a glass of wine, thinks it no sin to drink a cup of this intoxicating beverage. Without scruple or shame he drinks it publicly, for to him it is only the sap of the palm. If left to stand for another day, it changes to a most nauseating liquid and is unfit for use.

Barca is the eastern division of the province of Tripoli. It lies between the Gulf of Sidra and Egypt.

No definite line separates it from Egypt, but several roving, independent tribes serve as a living boundary line between the two races and their countries.

On the south, Barca consists of a desert plain descending gradually to the northerly depressions of the Libyan Desert. The greater part of the province is an oval plateau. It has, in turn, been held by the Egyptians, Byzantines, Persians, and Arabs, and comprised the Cyrenaica of the ancient world.

Many remnants of ancient towns, particularly in the northwest, bear testimony not only to the important place it held in the past, but to the celebrated fertility of the soil. At the present time the fertile tracts cover only about one fourth of the entire province. In the eastern portions only naked rocks and loose sand greet the eye.

Among the productions of Barca are rice, dates, olives, and saffron. Excellent pasturage is afforded to cattle, and the horses are as much celebrated as in days gone by.

The climate of Barca is very agreeable and healthy in the more elevated portions—often twelve hundred feet high—and in the sections exposed to the sea breezes.

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## CHAPTER LXXIX.

### FEZZAN.

As we journey to the south, on the road to the Soudan, we find the great oasis of Fezzan, which extends far into the midst of the Great Desert. The

rocky plateau of Hammada forms a natural defense for it on the north, and the superstition of the native Bedouins serves as another obstacle, in addition to those nature has placed along the road.

The Bedouins have a legend of the terrible *Djin*, who are doomed to everlasting imprisonment in the stony Hammada. The *Djin* were formerly the souls of a great people inhabiting this region. By reason of their great number and strength they not only disdained all humanity, but defied both law and justice, and made themselves feared by all of their neighbors.

King Solomon sent them an apostle, who might bring them to worship one God. They, however, not only spurned and mocked at the precepts and religious ceremonies of the apostle, but put him to death.

Not satisfied, they in derision placed a pig in their temples in imitation of the sacred niche which in the wall of the mosque indicates the direction of Mecca.

These and other sacrilegious acts they committed, trusting that their great isolation, and the vast distance which separated them from all neighbors, would prevent any accounts of their impiety from reaching the ears of the great Solomon.

It happened that there were many cranes in the land. These were so scandalized at the impious acts that they sent one of their number as a deputy to carry the news to the great prophet. Filled with indignation at what had taken place, he sent a summons to the lapwing, his favorite bird, commanding him to call together all the cranes upon the face of the earth.

When they were assembled they formed so vast a

number that they became a great cloud, which threw the earth into shadow from Misda, near Tripoli, to Murzuk, the capital of Fezzan.

Each crane held a stone in its beak. At a preconcerted signal all dropped their loads upon the heads of the wicked infidels, whose souls, set free, still wander over the solitary waste; while never has a crane been able to fly through this space of torment.

Some writers trace a resemblance between this Mohammedan legend and the story of the "Pigmies and the Cranes."

The northern part of the district consists for the most part of hills of a perfectly bare sandstone. There are no rivers nor brooks among these hills to irrigate the soil or to render it fertile. The southern part is mostly a level waste of desert sand, of which only about one tenth is capable of cultivation.

In the neighborhood of the villages of Fezzan, some ninety in number, situated mostly in the wadies, or apologies for valleys, we find wheat, barley, and other grains under cultivation. Camels and horses are raised in great numbers, and many wild animals and birds of prey are frequently found.

The inhabitants of Fezzan number about thirty-five thousand, and a nomadic or wandering population of perhaps nine or ten thousand.

The inhabitants are of a mixed race. Their skin is brown and in many respects they bear a strong resemblance to the negro. Their figures are, however, much more finely formed and better proportioned.

Originally of the Berber tribes, they have gradually

mingled with the Arabs since the invasion of the country by them in the fifteenth century. Hence the Arab characteristics and language are very marked in their influence upon those of the original Berber tribes.

Generally speaking, the people are far behind the rest of the world in civilization. They spend their time in cultivating their gardens and in manufacturing the most indispensable necessities of life.

Quite a large trade is carried on by means of caravans passing over the routes between the interior of Africa and the coast section.

Murzuk is the capital of Fezzan. It is situated at the foot of a high plateau surrounded by low dunes, or sand hills, thrown up by the wind.

While we can but admire the picturesque situation of the capital, yet, even at first sight, we cannot fail to notice the great barrenness of the scene. This impression is deepened rather than lessened after a few days' sojourn in the town or in its immediate neighborhood.

Cultivation of the soil is simply impossible, except in the shade of the date palms. Here, it is possible to raise only such fruits as the pomegranate, fig, and peach. Vegetables are very scarce, and the milk of the goat is the only kind that can be obtained, since there is no pasturage for cows.

Murzuk is said to have a population of about twenty-eight hundred people. These we find settled in and about the neighborhood of the bazaar. The quarters of the city most distant from it are almost deserted.

A broad street extends from the eastern gate to the

citadel. This peculiarity would seem to indicate that the town is more closely related to negro-land than to the Arab territories on the north.

Murzuk is not inhabited by wealthy merchants. It is not so much the seat of a large commerce, as it is a place of transit.

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## CHAPTER LXXX.

### THE PORT OF EGYPT.

Alexandria has aptly been called the "doorway of Africa," for it is the port through which the continent has been entered for centuries.

Leaving Europe on a luxurious steamer, and possessing the necessary passport, we shall find the port of Alexandria an easy step from the comforts of European life to the picturesque features of that in Africa.

As we view the city of Alexandria from the harbor, it does not present a specially imposing appearance. Built upon a level plain it offers no great attraction to the eye, unless it be a double row of windmills, which stretch to either hand. Looking either to the right or left as far as the eye can distinguish them, they may be seen diminishing in the perspective of the dim distance, and ceaselessly turning.

In strong contrast to these humble sentinels rises an imposing column, a relic of old Roman days. Still there is little to indicate the former grandeur of the famed city, whose ancient glories have disappeared.

The modern city of Alexandria does not occupy the exact site of the ancient one, but in a great measure is built upon the mole, Heptastadium. This, by means of alluvial deposits, has broadened into quite an extensive neck of land between the two harbors.

The eastern harbor is called the New Port; the western is spoken of as the Old Port. All the largest steamers enter the eastern harbor; hence the stranger from a European port first steps foot upon African soil at the eastern quay.

In no way can the modern city be said to bear any resemblance to the old city; nor has there been any attempt to reproduce the grandeur of the ancient one. It has, in fact, an entirely different character. The Alexandria which endeared itself to the Greeks and Romans was a city rich in its treasures of literature and philosophy. The modern one, on the contrary, was designed for, and is devoted to, the interests of commerce.

The ancient city was founded by Alexander the Great in the year 332 B.C. Its original situation was on the low stretch of land separating the lake Mareotis from the Mediterranean Sea.

Just in front of the city, in the Mediterranean Sea, was the island of Pharos. Upon the northeast corner of this island stood the lighthouse, famous in history, which was constructed by a noted architect at the command of Ptolemy Philadelphus.

Tradition tells us that the architect when building the lighthouse cut his own name in the stone foundations, which he covered with concrete. He then carved the name of his royal master in the more perishable por-

tion of the structure, trusting that as the years rolled by Old Ocean and Father Time would reveal the name of the true builder. Thus would his name become known to fame, and not only appeal to the eyes of the people, but live on in their memories.

The island of Pharos had connection with the mainland by means of the mole Heptastadium, named from its great length the "Seven Furlong" mole. Thus the two harbors were formed.

The entire length of the original city is said to have been about four miles, while its circumference was not less than fifteen miles.

Two main streets ran straight through the ancient city. These crossed at right angles in the heart of it. The streets were well built and were adorned with colonnades throughout their entire length.

The most beautiful section of the city had a situation upon the eastern harbor; here were located the palaces of the Ptolemies, and the museum and ancient library. Here, too, stood the Soma, or Mausoleum, of Alexander the Great and of the Ptolemies, and the imposing theater of the city.

A little farther to the west was the emporium, or exchange. Rhacotis, or the Egyptian quarter, was in the western section of the city. It contained the temple of Serapis.

Just at the west of the city was the great Necropolis. To the east lay the race course. Just beyond it was the suburban district of Nicopolis.

Most of the houses in ancient Alexandria had spaces under them. In these were built vaulted underground



cisterns, which were capable of holding water enough to supply the wants of the whole city for an entire year.

From its earliest history Alexandria was the "Greek capital of Egypt." We are told that at the time of its greatest prosperity it contained about three hundred thousand free citizens. This did not include the slaves and strangers, who must have doubled the number of the people.

The population, for the most part, consisted of Greeks, Jews, and Egyptians, with settlers, probably, from all nations of the then known world.

On the death of Alexander the Great the city became the residence of the Ptolemies. Under their reign it became the most magnificent city of antiquity except Rome and Antioch. In addition it became the center of learning and Greek literature, while its influence spread over a large portion of the Old World.

The situation of the city was most favorable for its prosperity. The connecting link, as it were, between the East and the West, it soon became the great commercial center of the world.

About 30 B.C., when the Romans took possession of it, it had reached the pinnacle of its glory. From the time of this conquest its prosperity was on the wane. Little by little the influence of the invader was felt. The removal of all works of art to Rome was the death-blow to the prosperity of which Alexandria had been so proud.

Then followed frightful massacres, the laying in waste of the most beautiful portion of the city, the siege and pillage of the now doomed capital, and finally

the increasing prosperity of its rival, the city of Constantinople.

Thus did circumstances rapidly combine to destroy Alexandria. In the fourteenth century, all that remained of its former splendor of buildings was the temple of Serapis.

Soon the strife between Christianity and heathenism arose. The final victory was gained in 389 A.D., when the only remaining seat of heathen theology was stormed by a body of Christians and speedily turned into a place of worship.

Thus ended heathenism in Alexandria. It became the great center of Christian faith and theology, and nothing marred its prosperity till it was taken by the Arabs 638 A.D. The conquest by the Turks completed the destruction of the city 868 A.D.

True, under the Egyptian califs its prosperity revived somewhat; for, under them, it remained the chief commercial center between the east and the west.

The discovery of America, and the existence of a passage to India by way of the Cape of Good Hope, had a most disastrous effect on the trade of Alexandria, and reduced it to very small proportions compared with that of former days.

Under the dominion of the Mamelukes the city suffered still farther reverses. The conquest of the Osmanli followed this dominion, and destroyed such little prosperity as the Arabs had succeeded in restoring. The effect of these constant changes was such, that in 1778 A.D. there were but about six thousand inhabitants in the whole city.



At the close of the eighteenth century Egypt was conquered by the French, and this had the effect of reviving the prosperity of her long suffering port.

Under Mehemit Ali, who had his home there for a portion of the year, the city prospered to such an extent that it soon attained the reputation of being one of the chief commercial cities on the Mediterranean Sea.

Through the influence of steam navigation it has, as of old, become the medium of communication between Europe and the East Indies. It is connected with Cairo by means of a canal which was constructed somewhere between the years 1818 and 1820. It is also connected by railway with Suez. Until quite recently, all passengers and freight for India went by the way of Suez.

The population of Alexandria is somewhat mixed, for it consists of Arabians, Turks, Copts, Jews, Greeks, and French.

Ancient Alexandria is associated in history with Julius Caesar, who, 48 B.C., went there to intercede in the dispute over the rightful successor to the Egyptian throne at the death of Ptolemy Auletes. According to the will of the late ruler, his daughter Cleopatra and her husband Ptolemy Dionysus should have succeeded to the throne.

In consequence of the dispute as to the rightful successor, the Alexandrian War followed. Ptolemy Dionysus was slain, and Cleopatra, after much delay, finally took possession of the throne.

The beauty and power, the extravagance and arrogance of Cleopatra have formed the subject for many a painter, the theme for many a poet and historian.

## CHAPTER LXXXI.

### THE NILE DELTA AND THE SUEZ CANAL.

A trip into Egypt would be incomplete without obtaining a view of the Delta of the Nile, which lies east and southeast of Alexandria.

The ancient Egyptians believed that the alluvial deposit at the mouth of their beloved river had been gained from the sea, but modern geographers believe it to have been formed by particles of earth, which in the course of ages have been deposited at the river's mouth.

The water of the Nile is usually of a deep blue color, which changes to a reddish brown during the annual overflow of its banks.

All the Nile countries, or those which border on its banks, receive a deposit of soil during the annual inundation. This deposit, which covers even the rocks, consists of earth or loam mixed more or less with sand.

Around the Delta we find very noticeable signs of the gradual sinking of the ground. What were known as the "Baths of Cleopatra" at Alexandria have already sunk below the level of the water.

Several changes, due to the annual inundation, have taken place. In 1784 a lagoon, or small lake, was formed at Aboukir by the invasion of the sea. The bed of what now constitutes Lake Menzaleh was once a densely populated region.

The Delta presents the appearance of an immense marsh during the season of inundation; the various

islands, villages, towns, and plantations can barely be discerned above the water's level.

The houses of the well-to-do peasants in the Nile villages are built of bricks dried in the sun; the chief magistrate usually has a more pretentious house built of bricks that have been baked in regular ovens or kilns; the humbler peasants content themselves with huts, which they form from the mud of the Nile and roof over with the leaves and stems of the palm. The whole is then plastered with a coating of mud.

In these villages, a minaret towers above the various houses and hotels; while a few sycamores spread their leafy crowns and make the chief ornament of the village. Slender date trees sway in the breeze, and the long racemes of the acacia shed their delicate perfume abroad.

The rains of the tropics, to which the rise of the Nile is due, reach Egypt about the middle of June; they do not reach the Delta till about the end of the month.

The rise of the river dates from the appearance of the red water, about the middle of July. The water does not reach its maximum height till near the end of September. By the middle of October it has sunk very perceptibly, and by the month of April has gradually subsided to its minimum depth.

By the end of November the irrigated land has dried sufficiently to allow of its being sown. Soon the eye is gladdened by the sight of a rich covering of green crops which brighten the landscape till the close of February. In March comes the harvest time when all the crops are gathered and stored.

Since the days of Moses, Egypt has been associated

in the mind with plague, pestilence, and famine. It can by no means be considered a healthy country. Ophthalmia, a distressing disease of the eyes, prevails to an alarming extent.

It is no uncommon thing to find not only the father, mother, and children in a family suffering from the loss



SUEZ CANAL.

of sight in one or both eyes, but even the cat, dog, and donkey may share the same affliction.

Lack of general care and cleanliness is believed to be the chief cause of the disease. The strange apathy of the people, no doubt, has some influence in spreading the disease; for they seem to accept blindness as one of the decrees of Fate.

The world may well be proud of man's triumph over the forces of nature, upon viewing the Suez Canal. The construction of it was a scheme from the time of the greatest antiquity. It was left for France with her enterprise and science to achieve this brilliant victory over nature, and to add fame to her name through the accomplishment of so wonderful a feat.

It is an undisputed fact, that in the days of ancient history the Red Sea and the Mediterranean were indirectly connected by a canal. We can with no certainty, however, fix the date of its construction. Some writers place the date as far back as six hundred years before Christ.

The subject remains wrapped in mystery. Aristotle and Pliny ascribe its construction to a half-mythical personage. Some writers believe the Persian king, Darius, was its constructor. Others ascribe it to the Ptolemies, so that the originator and maker remain unknown.

Such a canal did exist. It began about a mile and a half from Suez, and extended in a northwesterly direction, through a remarkable series of natural depressions, to ancient Bubastis on the eastern branch of the Nile.

The canal was ninety-two miles long. Sixty miles of this extent had been cut through by the labor of man. The width varied from one hundred and eight to one hundred and sixty-five feet, the depth was fifteen feet. Pliny, an ancient writer, declared it to have been thirty feet deep.

History does not state how long the canal was used. It finally became choked with sand deposits and

remained unused until the second century A.D., when it was cleared for navigation.

Again, in course of time, it became practically useless from sand deposits. It remained in this condition till the conquest of Egypt by Amron. He had it reopened and named it "The Canal of the Prince of the Faithful."

It remained open for nearly a century. In 767 A.D. the sands again conquered, and in this condition it was left till the invasion of Egypt by Napoleon Bonaparte. The attention of modern Europe was then directed to it. A number of engineers were employed to survey it and report upon it; but no result followed their report.

The subject continued to agitate the public mind from time to time; yet no definite action took place till 1847, when France, England, and Austria sent commissioners for the purpose of ascertaining accurately the difference in level of the two seas, the Red and the Mediterranean.

Their report was somewhat astonishing. Instead of a difference of thirty feet in level, as had been previously reported, the seas were found to have precisely the same level. One strong difference was noted, namely, a tide of six and a half feet at one end, and one and a half at the other.

In 1853 an examination was made, but the results remained unchanged. Various plans were projected. One commissioner, who did not believe it possible to construct a canal, proposed a railroad from Cairo to Suez. Some years later such a railroad was opened to the public. It was devoted to the overland transportation of the British, Indian, and Australian mails.

France, in her energy, was not satisfied with the report of the English commissioner, and later caused to be published in a prominent journal, a plan to connect the two seas by way of Alexandria and a point some six miles below Suez.

In the year 1854 Count de Lesseps, a well-known member of the French representatives in Egypt, attracted the attention of the public by the originality of his plans. Two years later he obtained from the Pacha the exclusive right to construct a ship canal from Tyneh to Suez.

Count de Lesseps' plan differed from all previous ones, for he purposed cutting directly through the isthmus to Suez, rather than to follow an oblique course and to connect the canal with the Nile.

The great masterpiece of his plan was to construct two harbors, one at either end of the canal, Tyneh and Suez.

On the Mediterranean Sea he purposed carrying the harbor five miles out from land. This he deemed necessary in order to obtain depth enough to float a ship drawing twenty-three feet of water. Any natural harbor he knew would be obstructed by the vast quantities of mud and sand brought down annually by the Nile in its passage to the sea.

As many as thirty million cubic feet are thus carried down annually, to be driven by the prevailing winds along the shore in an easterly direction down towards the southern coast line of Palestine.

Count de Lesseps calculated that to construct such a harbor as he wished would require from three to twelve

million cubic yards of stone. Herein lay the great difficulty; for there were no large stone quarries except at a great distance from Tyneh.

De Lesseps planned to carry the pier at Suez three miles out from land. He foresaw many difficulties before he could hope to see his plan completed, yet these difficulties did not seem to him so insurmountable as those on the Mediterranean Sea.

Naturally, his project met with much opposition; but finally public opinion declared the plan, with some modifications, to be practical, and that the construction of such a canal would be profitable to commerce. A company was formed and at the end of five years the canal, at its Mediterranean entrance at Port Said in the eastern portion of the Delta, was finished.

From Port Said the canal had to cross about twenty miles of Lake Menzaleh, a shallow body of salt water, which in general appearance strongly suggested the lagoons of Venice. Beyond the lake much more labor had to be expended, owing to the varying height of the land above sea level. Some twenty-two miles of ground, varying in height from thirty to eighty feet, had to be cut through.

The work of excavation was most laborious, owing to the nature of the soil, which was often mixed with clay. The vast quantities of sand seemed endless, even with the aid of dredging machines and elevators, in excavating a canal as wide as that proposed—three hundred and twenty-seven feet.

When the Bitter Lake region was reached the work of excavation was no longer necessary, but much labor



had to be expended in making an embankment for the better security of the canal.

At the southern end of the Bitter Lake region the work of cutting was again resumed as far as Suez, some thirty miles. This was, perhaps, as difficult a task as any that had to be accomplished. So difficult was it that the width of the canal was here reduced quite a little from that at first planned.

About the middle of March, 1869, the waters of the Mediterranean were successfully conducted into the Bitter Lake. Early in the fall of the same year Count de Lesseps had the well-earned satisfaction of making a steamer trip the entire length of the canal in about fifteen hours.

Thus had the skill and the energy of the French nation overcome the doubts and the objections of the English as to the practicability and possibility of so stupendous a piece of work.

It was a day of triumph when a formal notice of the public opening of the canal, throughout its entire length, was issued by Count de Lesseps in November, 1869. Several of the royal heads of Europe were invited to attend. The Emperor of Austria and the Empress Eugénie were among those present.

November 18, the imperial yacht *L'Aigle*, of France, with a fleet of forty vessels, made the passage of the first part of the canal to Ismailia in about eight hours and a half. At Ismailia the fleet was met by four vessels recently arrived from the southern terminus of the canal at Suez. The whole fleet set sail for Suez November 19, reaching the Red Sea two days later.

Examination of the canal proved that the water was never less than twenty feet in its most shallow parts. The usual depth was not less than twenty-five feet. The canal is now open to navigation for vessels from all nations. The usual time of transit is fifteen hours. The total cost of this great achievement of mechanical skill was about sixty million dollars.

The opening of the canal had naturally a great influence upon Suez. Formerly it was but an insignificant little town built upon a small corner of land near the northern arm of the Gulf of Suez. A railway connected it with Cairo some seventy-six miles distant. The town was walled on all sides except that facing the harbor. This harbor was rather an insignificant one, though it had a fairly good quay. Great improvements have been made. French and English houses and various offices and warehouses have been erected in different localities, which lend an air of thrift and enterprise to the town. The shops, or bazaars, have become much more pretentious, and furnish such supplies as clarified butter from Sinai, and fowls, grains, and vegetables from an Egyptian province.

The town, in spite of its improvements, is not attractive. There is little to please the eye in the wastes of burning sand that stretch out on every side. Rain is seen so seldom here as to seem almost a phenomenon. Sometimes intervals of more than three years elapse between the rainfalls.

It is rather interesting, in considering the changes that have taken place in the conditions of the earth's surface, to read that, in the opinion of many learned

men, the Isthmus of Suez, though now only a dreary waste of sand, contained, at some remote time, the far-famed land of Goshen. Accounts of its fertility have been handed down to us from antiquity.

As we approach nearer the vicinity of the Nile we find, about fourteen miles north of Belbeys, the ruins of the ancient city Bubastis, the Pi-beseth of the Scriptures, the Tel Basta of modern times.

The name Bubastis is said to have been derived from that of the Egyptian goddess. It is related, that upon the flight of the gods into Egypt, Diana Bubastis changed herself into a cat. Since then these animals have been held sacred.

Historians give interesting accounts of festivals held at Bubastis in honor of the goddess. It was the custom to embalm all cats that died and send them to the sacred city to be buried.

At the present time there is no trace of these unique tombs, but the memory clings to these ancient sacred rites rather tenaciously, and many of the present customs may be traced back to them. It but serves to show the influence of superstition even in the light of modern days.

It cannot be denied that some of these customs may be regarded, however, in the light of kindness to animals. Not so very many years ago quite a large sum of money was bequeathed in Cairo for the support of homeless and friendless cats.

Until within comparatively a few years pilgrimages were made to Mecca. Each caravan had for its leader an old woman who was accompanied by a number of

cats. In all honor, she was named "The mother of cats."

Even at the present time a man laden with cats accompanies each band of pilgrims to Mecca — a relic of the old time ceremony, which doubtless grew out of the custom of carrying the embalmed bodies of cats to Bubastis.

Herodotus tells us that the temple of the goddess at Bubastis was considered one of the most beautiful of all the Egyptian temples, and that it was the custom of the people in his age to make annual pilgrimages to it.

Nothing remains now of the former beauty of the temple. A few stones of the purest and finest grade of red granite are the only relics of its past splendor.

There are some ruins and mounds which, doubtless, are remains of what were once brick houses, and specimens of ancient pottery.

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## CHAPTER LXXXII.

### CAIRO, THE GREATEST CITY IN AFRICA.

Cairo is situated at the head of the Delta of the Nile, where the river emerges from among the hills and makes its course through the alluvial plain formed by the annual deposits of silt. Its name, in the Arabic tongue, signifies "The victorious capital."

Below Cairo the Delta spreads out in the form of a half-opened fan to its broadened base on the Mediterranean Sea.

Standing at the citadel, which occupies the highest ground in the city, we may from this elevation perceive the dividing line between the barren sandy hills of the desert and the well-watered fertile plains of the Nile basin. Spread out before us is a royal panorama of city, river, plain, and hill.

Just across the river we behold the pyramids of Gizeh rising toward the east, together with the Great Pyramid, which is next in size, and another much smaller. Close by is the Sphinx, but we cannot discern it at this distance.

A few miles farther to the south rise the pyramids of Sakkarah, which are nearly as impressive as the others. They are near the site of the ancient city of Memphis.

As we look down upon the city of Cairo, we perceive a hundred or more minarets pointing upwards to the sky. On the outskirts of the city the desolate hills rise to a considerable height. It is here that the hills on either side approach each other so closely as to narrow the valley between them to a width of but five miles.

The citadel of Cairo was built by the famous Saladin in the twelfth century; he took the stones with which to build it from the small pyramids of Gizeh. It stands at the southeast corner of the city, which it seems to crown. The imposing effect of the citadel would be much greater, did not the barren hill in the rear tower over it, thus dwarfing its height.

The citadel is well worthy of description. It is really a small town containing several objects of interest. The old palace of Saladin is no longer in existence. On its former site stands the rich and imposing mosque of

Mohammed Ali. It is of modern construction, built after the style of the mosques of Constantinople. So lofty and airy is its interior that the effect is most pleasing.

The court is paved with square blocks of white marble. Cloisters, supported by columns of alabaster, surround it on three sides. The interior of the mosque is also of alabaster and is surmounted by a lofty dome supported on four massive square pillars. Unlike many of the mosques of Cairo, this mosque is clean and well kept.

The old mosque — for centuries the royal mosque of Cairo — still stands in the center of the citadel. It is, however, in an advanced state of decay and ruin. Near by is St. Joseph's Well, some two hundred and ninety feet deep. Tradition says that the well, which was built by the ancient Egyptians, was, when discovered by Saladin, nearly choked with sand, which he caused to be removed.

The well is about twelve feet square. A gently sloping staircase on the outside descends to the level of the bottom of the well, which is said to be at the level of the Nile. This staircase is no longer used. Travelers, by payment of a small fee, have the privilege of looking at it.

To reach the well we must be willing to wade through deep sand, and to slide down a steep incline some forty feet, before we can hope to gaze down into the illustrious hole. Probably no vertical shaft was ever so impressive as this.

Cairo contains nearly three hundred mosques, the

minarets of which are not only the most beautiful, but the most imposing of any the traveler sees in the Mohammedan world.

To one standing in the citadel, the city presents some of the most striking and picturesque views to be found in the East. Looking beyond the mosques and their towering minarets, some built of alternate layers of red and white stone, we behold the graves of the califs, the white mountains of Mohattan, the gigantic pyramids, the fertile plain of the Nile, and the dreary stretch of the desert.

The life history of Egypt lies before us, and we have but to read the interesting pages of the past, open to our view.

The city of Cairo was founded in 969. It was for ten generations under the rule of the Fatimite califs of Africa, who came from Kairon bringing the bones of their ancestors with them.

Towards the close of the twelfth century Saladin usurped the government.

In the middle of the thirteenth century a descendant of Saladin was deposed. Cairo then remained, until the early part of the sixteenth century, under the government of a line of Mameluke kings, when it was stormed by Sultan Selim.

Under the new rule, Cairo became somewhat European in its character. The ambition of the khedive was to make his capital into a Paris of the East.

Cairo still retains, however, many features strongly suggestive of Arabic origin. We find still its labyrinth of narrow lanes, its flat-roofed houses without chim-



A STREET SCENE IN CAIRO.

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neys, or windows, its large bazaars, in which all kinds of Oriental ware are exposed for sale, and its forests of minarets.

The narrow streets are in many places arched over; the bazaars are dark and gloomy, and the houses are built of variegated brick with interlinings of wood.

The city is divided into different quarters; one being appropriated to the Turks, one to the Christians, one to the Jews, etc.,—each separated from the adjoining one by a strong gate at the end of the streets. These gates are closed at night and are guarded by a porter, who opens them when any one wishes to pass out.

The great bulk of the population of Caire consists of Arabs. Their ancestors were the original conquerors of the land. The ruling class of the city now consists of Turks. The tradesmen and the cultivators of the soil are all of Arabic ancestry. Then, too, we find the Copts, descendants of the ancient Egyptians, the original lords of the soil. Jews, Syrians, Africans, and Europeans make up the residue of the population.

As we pass through the streets of Cairo, we cannot fail to notice the great number of blind persons among those who throng these narrow thoroughfares. Here, as in other parts of Egypt, ophthalmia is prevalent.

It has been stated that out of every four Egyptians there will be found one blind man, another with only one eye, another blear-eyed, and one with perfect sight. The intensity of the light does not seem to cause this blindness. It seems due, rather, to the great amount of dust and to a general want of cleanliness from infancy.

Another cause, too, is assigned for this misfortune. As far back as the days of Mohammed, fathers looked forward with dread to the time when their sons would be obliged to enter military service.

Many a father, to avert this fate for his children, preferred to destroy their eyesight in infancy, or to injure the eyes by cutting the pupils, rather than to see his sons claimed as soldiers when they had reached manhood.

About a mile beyond the walls of the city are the tombs of the califs. These are magnificent, imposing buildings, and may be considered beautiful specimens of Arabian architecture.

The public gardens of the city are also an attractive feature, consisting, as they do, of groves of orange, citron, and palms, intermingled with vines.

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## CHAPTER LXXXIII.

### EDUCATION IN CAIRO.

Cairo may be called the seat of learning in the East. It is celebrated for its eminent professors, particularly those of Mohammedan theology and law.

Attached to the mosque of Ezher is a university, or college, with quite a large Oriental library. Grammar, arithmetic, algebra, rhetoric, and other branches are taught in the university; while lectures on logic, theology, law, and the articles of the Koran are delivered there.

Students from all parts of the Mohammedan world congregate to the number of two thousand to receive this instruction, which is free to all. The professors draw no regular salary, but are dependent upon presents from the wealthy and upon what they may receive from private pupils.

In addition to the university there are several schools where grammar, arithmetic, and penmanship are taught. There are still others which are devoted to the arts and sciences, and to engineering. At Abou Zabel is the school of anatomy, medicine, and surgery.

The Arabic language is spoken at Cairo. Although it is not of the purest form, yet it is far superior to that spoken in Syria.

The manners and customs of the population of Cairo may serve as types of those of the cultured people in the various parts of the Mohammedan world. Serious attention is paid not only to the smallest details of social life, but special regard is had to the many precepts of their religion.

Perhaps in no way are the Mohammedan observances more strictly adhered to, and the religious institutions more rigidly enforced, than in the rearing and in the education of children.

In the most trivial matters religious precepts and rules direct the management of the young child. The first duty of the Mohammedan parent is to see that the babe is wrapped in clean white linen. If this cannot be obtained, any other color may be used, provided it be not yellow.

After the babe has been wrapped in linen, it is the

duty of some male to utter the summons to prayer in its ear. This custom is followed religiously by all good Mohammedans in remembrance of the act of the Prophet at the birth of El Hasan.

It is the custom to chant the Mohammedan summons to prayer from the minarets of the mosques just before the service.

It is to this effect: "*God is most great!*" repeated four times. "*I testify that there is no deity like God!*" twice in succession. "*I testify that Mohammed is God's apostle!*" — "*Come to prayer!*" — "*Come to security!*" — "*God is most great!*" each repeated twice in succession, followed by the closing sentence, "*There is no deity but God!*"

In former times it was usual for a father to give a grand feast of seven days' duration when a little son was born. The gift of a little daughter was not regarded as an occasion for so much rejoicing.

The general custom of modern times is to give an entertainment when the child is seven days old. The mother receives the guests, exhibits the young child to them, and accepts presents of gold or silver coins. These are usually intended as ornaments for the child's headdress. In the evening the father usually entertains his friends in honor of the young child.

The Mohammedan children are most carefully reared, and from their earliest years are taught to show the greatest respect to their fathers. A most tender relation exists between father and child in spite of the ceremonious greetings they exchange.

Each morning the child greets his father by imprint-

ing a kiss upon the hand. He then stands before him in an attitude of respect, covering his left hand with his right while he awaits directions, or until he receives permission to go. Often, however, when he has kissed his father's hand, he is taken affectionately upon his lap. After the days of his babyhood have passed the well-trained boy is seldom allowed to sit when in the presence of his father.

The natives of all Mohammedan countries are very fond of their children, yet they do not mourn for them to any great extent after the death of the little ones.

This feeling of resignation comes from a religious belief that children who die at an early age are able to intercede for their parents and obtain for them blessings greater than any that can be enjoyed in this world.

There is a popular belief in the promise of the Prophet, that all infant children of true believers shall, on the great judgment day, when the dead shall rise again, refuse to enter into Paradise unless their parents can go too. Then, in answer to their prayers and petitions, the gates of Paradise will be opened to all true Mohammedans.

Just as soon as a son is old enough to understand instruction, his father begins to teach him the most important rules of conduct. One of his first lessons is as follows:—the father places some food before his son and orders him to take it in his right hand. On no account can he employ the left hand, which must be reserved for menial services.

He is then trained to say, "In the name of God," as he commences to eat what is before him. He is also instructed not to hurry nor to spill any of his food, while it is impressed upon his mind that on no account is he to eat too much.

In addition to the instruction he receives in table manners, he is admonished not to be covetous nor miserly. He is forbidden to spit in the presence of others, or to commit any other rudeness. He is warned against talking too much, turning his back upon any one, standing in a slovenly position, and speaking evil against any one.

The obligations of the father are most binding. He must keep his child from evil companions, teach him the Koran, and all necessary religious and special observances and ordinances. He must give him instruction in the arts of swimming and archery, and see that he is taught some useful trade, as a protection against poverty. In addition, he must counsel him to show respect to his mother, and to endure patiently and submissively the corrections and punishments of his teachers.

Before a boy is old enough to go to school he has to submit to a religious rite which is observed with much pomp and with sumptuous feasts.

Before the observance of this rite, the boy, if he belongs to the higher or middle class, is usually paraded about the neighborhood near his father's home, gayly attired, generally in the dress and ornaments of a female, with a boy's turban upon the head.

Accompanied by a group of his female friends and

relatives, who follow behind the horse upon which he is mounted, he rides about, preceded by a band of musicians to herald his coming.

Rich gifts are bestowed upon the young lad by the great men and merchants, till the storehouses and magazines of the household are filled to overflowing with various supplies, as rice, honey, sugar, coffee.

Players and performers of various kinds are engaged to amuse the public. Often at some of the more pretentious entertainments a recital of the entire Koran is given. At others a dance is given by male and female performers in the courtyard before the mansion, or in the street before the doorway.

Very few children of Arab parentage receive much instruction in literature. Instances are rare where they receive even the rudiments of any of the higher sciences. Every town, however, has numerous schools; even the most moderate-sized village can usually boast of one school at least.

The schools of the towns are generally attached to the mosque and other public buildings. Most of these structures and the schools connected with them—like that attached to the mosque of Ezher here in Cairo—have been endowed by princes, men of rank, and wealthy tradesmen.

The schoolmaster's duties are light. Generally he teaches his pupils nothing more than to read the Koran and to recite the whole of it by heart.

After a pupil has committed the first chapter of the sacred book to memory, he learns the rest of the chapters in inverse order. This is done to simplify the task,

as the chapters generally decrease in length towards the end of the book. Hence, he learns on the principle of taking the easiest lessons first. Instruction in writing and arithmetic he usually receives from another master.

One more duty the Arab father has to perform, and one which he deems most important, when his son has arrived at a proper age, which is considered by some to be twenty years. It is the custom of the father to select then a suitable wife for his son.

It is an old saying among the Arabs, "When a son has attained the age of twenty-five years, his father, if able, should marry him, and then take his hand and say, 'I have disciplined thee, and taught thee, and married thee; I now seek refuge with God from thy mischief in the present world and in the next.'"

The girls of an Arab family are seldom taught even reading. Although admission to the schools where the boys are under instruction is allowed, yet very few parents permit their girls to get any benefit from this privilege. They prefer, rather, to give them such literary instruction as they wish, by employing a learned woman to teach them at home.

The duties of such a teacher are to instruct her pupils in the forms of prayer, and to teach them to repeat by heart a few chapters from the Koran.

Instances are rare where the whole book is committed to memory; for parents are instructed not to give their daughters a full knowledge of the laws of the Koran.

Needlework is to some extent taught to the daughters of an Arab household, but it is not a common custom. In the poorer families the daughters frequently

busy themselves with the spindle and many learn to weave.

In the families of the higher and middle classes the daughters are taught to embroider and to do other ornamental work. This is taught to them at home, or in special schools.

Formerly, singing and playing upon the lute were considered necessary accomplishments for the daughters of wealthy Arabs. Now, however, such performances are confined to professionals, or to the slaves of the royal household.

It is very rare now that any musical instrument, other than a species of drum or a tambourine, is ever seen in the hands of an Arab lady. These instruments are used largely by the ladies of the wealthy households and are beaten by the fingers.

In many households the mothers bestow much care in teaching their daughters to acquire a fine gait and elegant carriage, as well as various little details of deportment, to render them attractive and pleasing in the eyes of others.

Those of you who were so fortunate as to visit the World's Fair at Chicago doubtless remember the representation of the streets of Cairo. Not the least among its many unique features was the facsimile of a wedding procession.

Very slowly such a procession wends its way, headed by the quaint musicians, who, with lutes, tambourines, flutes, clarionets, and the peculiar drum of the Arabs, make the air hideous with their so-called music.

The married women, following behind, look like bats,

arrayed as they are in long black silk wrappers. Behind them, wrapped in white veils, come the young friends of the bride, and at last the bride herself, so carefully enveloped in a red cashmere shawl that not a feature can be seen, and but the barest outline of her figure. Her only ornament is a costly gold coronet.

She is accompanied by two relatives, who with much dignity walk on each side of her. A canopy of bright red material, supported on four poles, waves over her, and richly embroidered scarfs hang from it or flutter in the breeze. More musicians bring up the rear.

From time to time the procession halts in order to afford what is considered a rich treat for eye and ear to the people who dwell upon the streets through which the procession passes.

It is the custom of the Arab women to go heavily veiled, in order that their features may be hidden from mankind. When the young bridegroom receives his bride from her family, it is his privilege to lift her veil as he utters the words, "In the name of God, the Compassionate, the Merciful!" For the first time, usually, he now beholds the face of the bride, who, with eyes modestly downcast, stands before him.

The life of a young wife is not an enviable one, for she but leaves the seclusion of her father's home for the still closer seclusion of her husband's, where, surrounded by her women slaves, she passes the time in a monotonous routine.

The slaves of an Arab household are, many of them, fairly educated and possess some little knowledge of sewing. In the wealthy households many of the slaves

have been taught to sing and to dance, or have been trained to repeat lyric poetry for the entertainment and amusement of their owners.

In every Arab household the women's apartments are set off from the others; for it is part of the Mohammedan religion that women shall lead a life of seclusion, surrounded only by their children and female slaves.

The duties of these slaves are not laborious, though they may be monotonous. They consist mostly in waiting upon and serving their mistresses, who have scarcely more liberty than they. The negro slaves are a decided contrast to the white slaves, and are employed mainly in the kitchen and other domestic apartments.

Most of the slaves are well treated and lead happy and contented lives, since they can have no conception of a free, unfettered life such as the humblest tiller of the soil may enjoy when he lives in the land where the "red, white, and blue" floats in the air, a symbol of liberty to all who claim its protection.

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## CHAPTER LXXXIV.

### GIZEH AND ITS PYRAMIDS.

On the opposite side of the river from Cairo, about three miles southwest, lies the village of Gizeh. It is situated not far from the boundary of middle Egypt just where the line of the great pyramids begins.

The neighborhood about Gizeh is somewhat noted, for it has twice been associated with the fate of Egypt

in decisive battles—in 969 A.D. with the Fatimite army, and in 1798 with the French army under Bonaparte.

Ancient Gizeh was adorned with beautiful palaces and magnificent mosques. It was once a favorite resort for the merchants of Cairo, when they wished to be set free from the cares of a business life. Nothing remains now on the ancient site but a mere village. Piles of rubbish are all that mark the spot where magnificent buildings once stood.

One ancient custom still prevails in modern Gizeh, the process of hatching eggs in ovens. This custom has descended from the time of the Pharaohs.

Stretching north and south for many miles between the verdant valley of the Nile and the Libyan desert beyond, at an elevation of one hundred feet above the level of the Nile, rises a barren plateau, lying at a distance of about ten miles west of Memphis and running parallel with the river.

To the ancient kings of Egypt this rocky ridge, beneath which the *Sun*, the chief deity of the Egyptians, appeared to sink to rest, seemed the most fitting site upon which to build their tombs. Sitting in their palace at Memphis and viewing this western plateau, they could but meditate upon the time when their sun of life should sink and they be called to the abode of the Gods.

It was the custom to hew out chambers in the rocks on the sides of the hilly ridge, in which to place the bodies of the common dead. The king, who had reigned over his subjects in life, felt it but a fitting



monument to his memory that his sepulcher should be of the most magnificent proportions.

The royal sarcophagus was usually placed in a spacious chamber under a grand monument of stones. Little by little the heap began to take more definite shape under the hands of the builders, until it assumed the immovable form and severe aspect of a pyramid.

Gradually the structure became more and more regular in the character of its interior and in the outline of its exterior, till it finally stood sharply defined against the sky, the pride of the builders and the marvel of future ages.

It is said by one authority that there were about seventy of these pyramids erected along the plateau west of Memphis, between Abu Roash and Dashur. Among them were some especially noted for their size and magnificence.

According to an ancient writer, the usages and customs of the Egyptians were directly opposite to those of other nations. It was the custom for the women to be employed in business and trade, while the men stayed at home to spin and attend to domestic affairs. This gave rise to the extraordinary law by which the daughters, not the sons, were obliged to provide for their parents.

In carrying burdens, the men bore them upon the head, the women upon the shoulder. Bread was kneaded with the feet, and mortar mixed with the hands. In all other countries the cattle were separated from the members of the household, but in Egypt men and beasts dwelt together.

According to this author, the Egyptians were the first to assert the immortality of the soul. They believed that the soul, after the corruption of the body, entered some animal, and by a continuous change passed successively into the different kinds of creatures belonging to the air, earth, and water. After a lapse of three thousand years it again dwelt in a human body.

The utmost care was employed to preserve the body as long as possible, that the soul might be obliged to continue with it. As the body was thus cared for, or embalmed, no labor nor cost was spared in building the sepulchers, which were termed *eternal mansions*. Their houses were built with much less care and expense, for they considered them but inns where men abode as travelers for a few years.

Many of the embalmed bodies, or mummies, have been brought from Egypt and placed in national museums. Some of the coffins in which they lie are very thick. They are generally of sycamore, which does not decay so easily as some wood. Some are of stone, others of cloth pasted together, making them very strong.

The top of the coffin is usually cut into the shape of a head, with a face resembling a woman's painted on it. Some of these coffins are handsomely marked with hieroglyphics. The body of the coffin is plain, with a broad pedestal at the lower end on which it can rest in an upright position.

The embalmed body appears wrapped in a shroud of linen upon which are fastened many linen scrolls painted with sacred characters. The face is covered

with a headpiece of linen fitted with plaster. On this the countenance of the deceased is represented in gold.

The whole body is swathed with linen bands with great neatness and skill. There cannot be less than one thousand yards of these linen bands upon a single body.

The great pyramids of Gizeh have a situation on a hill six miles west of the Nile and at a distance of ninety miles from the Mediterranean Sea. They are three in number.

There is a fine highway, built at some elevation above the plain and shaded by acacia trees, running from Cairo to these pyramids, a distance of about eight miles. As we cross the river by means of a modern iron bridge, we behold from the center of it a series of most beautiful pictures.

The Nile, even at its lowest stage, impresses us as a noble river. It is the longest river of the eastern continent, and is exceeded in length only by the Amazon and the Mississippi. True, the volume of its waters is doubtless exceeded by that of several others, since the amount is diminished by the light rainfall and the narrow watershed of the latter half of the course.

Gazing at the Nile, we can but reflect upon what it has done and what it now does for Egypt, and we realize that its flood is one of the greatest blessings, if not one of the greatest wonders in the world.

We cross the bridge, and the road we follow leads to the western hills, on the northern extremity of which stand the pyramids of Gizeh, at an elevation of one hundred feet above the sea. The whole of this region

was, from the earliest period, one of the cemeteries of old Memphis, which was the residence of the ancient Egyptian kings.

The largest and most ancient of the pyramids was built by Khufu. Within the solemn stillness of the chambers of the pyramid of Khufu the stone coffin which contained the royal mummy was placed. Upon the walls was sculptured the story of the dead king's deeds. A stone sealed the passage leading to these silent chambers. Three hundred and sixty thousand men were employed for twenty years in building this pyramid.

Another of these pyramids, Cheops, was built by the brother and successor of Khufu. It is constructed of huge blocks of red granite upon a vast ledge of hard limestone rock. This ledge is one hundred and thirty-seven feet above the level of the Nile.

History states that the pyramid was originally built in layers which formed steps. These were covered either with marble or alabaster, making a fine smooth surface. The footprints of Time have removed this outer covering, and the foundation steps, once rough, are now worn smooth by the feet of travelers. Cheops covers an area of thirteen acres.

The pyramid has a length of seven hundred and fifty-seven feet on each side. Originally it stood four hundred and eighty feet high; twenty feet have, however, been removed.

Two hundred and six steps, or layers of stone, lead to the top, a tedious climb, requiring almost as much courage and zeal as to scale the Alps. The ascent is

usually made from one of the corners by winding back and forth over the angle in a zigzag direction.

It is not safe to attempt to make the ascent without suitable guides, for one soon becomes dizzy and helpless. A little girl carrying a jar of water usually accompanies the traveler, who frequently finds it necessary to avail himself of her proffered services. The descent is less dangerous but quite as exciting, for the guides, taking the traveler by the hand, leap down the steps at a merry rate. It is with a feeling of relief, no doubt, that the traveler finds himself standing on mother earth again.

The third pyramid was built by Menkera, a successor of Khufu. In the central vault the mummy of Menkera was found. The sarcophagus, in which it lies, is of blue basalt, and contains the following description, "Osiris, King Menkera, ever-living one. Thy mother Nut is outstretched over thee; in her name of the mystery of the sky may she deify thee and destroy thy enemies, King Menkera, ever-living one."

According to accounts handed down from the Egyptian priests, the immense masses of stone used in the construction of the pyramids were brought from Arabia. They were put into place by building up huge mounds of earth beneath them, and allowing them to slide into position, as if from an inclined plane. It is certain that stone such as was used in the pyramids is not to be found within many miles of these structures.

Various reasons have been assigned for the building of the pyramids other than that they were intended as burial places for kings.

Some writers believe that their dimensions were meant for the basis of a system of weights and measures. Some have discovered a geometrical design in the construction, and believe that they were intended for teaching astronomy. Others argue, that only a "divine origin, plan, and purpose could account for the wonderful skill and hidden mysteries of the great monuments."

The wonderful Sphinx of Egypt is supposed to have been planned by the monarch Khafra.

"This great image stands north of the second pyramid of Gizeh. The effigy is the symbolical form of the god *Harmachu*, meaning Horus the Resplendent, to whom the adjacent temple was dedicated.

"The figure is hewn out of the solid rock. It has the body of a crouching lion and the head of a man capped and bearded. It is one hundred and ninety feet high.

"Between the paws, which are extended to a distance of fifty feet, is a monumental stone bearing the name of Khafra, who is said to have dedicated the image. The shoulders are thirty-six feet in breadth. The head measures from top to chin twenty-eight feet and six inches.

"The drifting sands of centuries have fallen around the mighty effigy, until only the solemn visage, looking out towards the Nile, and a small part of the shoulders and back remain above the level of the desert."

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## CHAPTER LXXXV.

### HELIOPOLIS, THEBES, AND KARNAC.

About ten miles northeast of Cairo lie a few crumbled stones and a single obelisk ; these are all that remain of the ancient city of Heliopolis. This obelisk, the oldest in Egypt, was erected by the second king of the fourth dynasty, about two hundred years before the dawn of the Christian era.

Heliopolis was not only a famous city of the ancient world, but it was the seat of learning as well. One of its greatest attractions was the Temple of the Sun, possibly the most celebrated building in Egypt.

This temple has been described as standing in an area which measured a mile in length and half a mile in width. The approach to it was by an avenue lined with colossal sphinxes.

The ride to Heliopolis will take us through a growing suburb where a large number of beautiful houses have quite recently been erected. The road then emerges into a highly cultivated plain. This was once barren sand, but is now nourished and fertilized by the waters of the Nile, which have been carried to it.

We pass at intervals extensive buildings, a military school, numbers of old tombs, an astronomical observatory where the calculations are made for the yearly Mohammedan almanac, the palace of Zafforan, built by the late khedive for his mother, and also the palace occupied by the present khedive. This is situated in the midst of a fine plantation.

Just before reaching Heliopolis we dismount to step aside into a garden where stands an ancient sycamore tree, under whose shade the Holy Family is said to have rested on their flight into Egypt. This tree, which is crooked and gnarled, has its trunk and limbs covered with names, which travelers have cut in the bark.

So zealous have thoughtless travelers been to secure mementoes, that the owner of the tree has been obliged to fence it in, so that it might not be carried away in chips by the desecrating hands of would-be worshippers.

The obelisk at Heliopolis is the only object of interest. It is built of red granite, and stands sixty-six and one-half feet above the pavement on which it rests. Its base is rather more than six feet square. The inscription, which is alike on all four sides, is in large hieroglyphics. The lines are as sharply defined as if cut but yesterday. The pavement upon which the obelisk stands is about six feet below the level of the surrounding plain.

Strabo described the city as standing on a raised site; hence it is apparent that both the river and the alluvial plain have been raised to a considerable extent during the last two thousand years.

Very few of the Egyptian obelisks are to be found on their original sites. Some have been removed to Rome and Alexandria, others transported to places at still greater distances. Cleopatra's Needle, in Central Park, New York City, was brought to America in 1885, at great expense and with much difficulty, from its site under Egyptian skies. It was a gift to the United States from the Khedive of Egypt.

Its counterpart, a gift to England, lay prostrate in



the sands of Alexandria for many years, but was finally taken to London and placed on the banks of the Thames. Curious hieroglyphics upon it prove that it was originally in the Temple of the Sun, at Heliopolis.

Heliopolis was renowned for its fine literature, its beautiful temples, and its great priesthood. It was the University City, and was to Egypt what Cambridge is to England.

Starting out by carriage from Heliopolis, we soon are beyond its limits and in the open country. At once we are transported to the customs of Bible times. Nothing seems to have changed in the space of four thousand years. Here are the hewers of wood, the drawers of water, and the old mode of plowing the soil and of threshing the grain.

On all sides we notice the great fertility of the soil. Work and water seem the only agents lacking to render the country the garden of the world in the course of a few years.

Heliopolis was at one time counted among the wonders of the world. Little remains of its former glory. Gone are the avenues of sphinxes, the groves of statues, and the renowned Temple of the Sun. One solitary obelisk — the sheik of obelisks, the Egyptians call it — remains just where hands which now rest from all labor placed it four thousand years ago.

The hands which planted Mary's tree have long since crumbled and mingled with the dust of eighteen hundred years, yet the tree, of immense size, still stands, and is likely to live for centuries.

We cannot leave Egypt without having viewed the

magnificent ruins of Thebes, the ancient capital of Upper Egypt. Both at Thebes and Karnac we may behold the glories of ancient ruins. Imagination finds it difficult to picture the beauties of the ancient palaces and halls when they were in their early splendor.

“Thebes must have been the greatest and most magnificent city in Egypt. Almost as old as the flood, situated in a fertile valley, where it expanded to a vast and splendid amphitheater, and adorning both banks of the Nile, it was, in extent, wealth, and architectural glory, the flower and crown of ancient civilization.”

Homer sang the praises of its hundred gates nearly a thousand years before Christ. Some of the sacred prophets speak of it as containing a “multitude” of people. We cannot gaze on its wondrous ruins, nor linger among its splendid mausoleums of kings and princes, without receiving lasting impressions of its former grandeur and beauty.

The Thebes of the present and of the past come before the imagination in sharp contrast, and we find it difficult to reconcile the ever present fact of Arab filth and squalor with visions of former glory.

We vainly wish for some magic wand that could cause this ancient city to stand again as in the days of its early magnificence. It may not be. Both Thebes and Karnac are too remote from the path of commerce, too far removed from the great trade centers, in too close proximity to the burning sands of the desert, for us ever to hope to see them restored to the ranks of modern life, moved by its spirit of progress.

About a mile and a half north of Luxor we find the



ruins of Karnac. This was the grandest temple in Egypt, possibly in the whole world. We have but to visit it in the early evening to enjoy as glorious a sunset as mortals could desire. Who shall say what varied scenes, what gorgeous pageants, what centuries of glory and of ruin the great sun has looked upon in past ages!

We shall find it hard to give any adequate description of Karnac. Its magnitude and beauty bewilder and delight us. Its marvelous array of gates, towers, columns, obelisks, and statues astonish and enchant us.

How shall we describe a temple of such magnificent proportions! If we include its various halls and apartments, it measures twelve hundred feet in length and about five hundred feet in width. Its massive walls seem like palisades, its immense pillars like forests. Avenues lead to it from each point of the compass. Double rows of colossal sphinxes cut from gray, red, and black granite are ranged for miles along many of these avenues.

Each monarch in his reign enlarged the proportions of the temple from those which it had reached under his predecessors, whom he was anxious to excel, till the temple is said to have finally occupied seventy-five acres.

In the grand hall we find over a hundred columns still standing. They measure from nine to twelve feet in diameter; many of them are over sixty feet in height.

These columns are covered with hieroglyphical sculptures and paintings, in which the coloring is still brilliant, notwithstanding the centuries that have elapsed since they first saw the light of day. Many of these sculptures and paintings depict scenes recorded in sacred history.

Chronicles of the storied past, these realistic groups depict many a stray chapter in the life history of the old Egyptian kings and their captive hosts. Lost in meditation, we stand before these silent verifiers of the records of sacred history, and with grateful hearts acknowledge the blessings of home and country and the advantages to be derived from an enlightened century, rich in science, philanthropy, and Christianity.

THE END.

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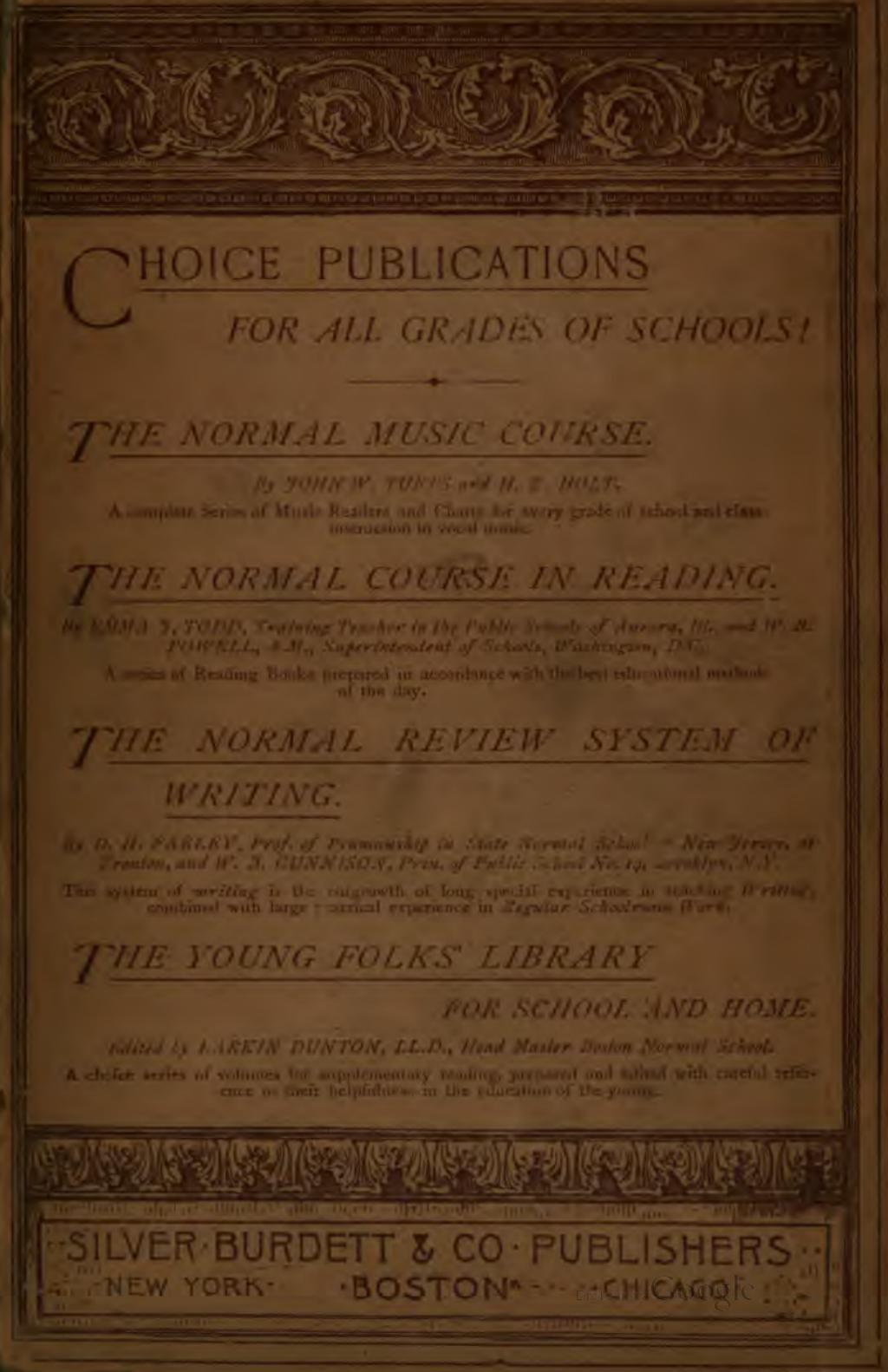
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